Reference 10

9532571

F06-8708-16

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

REGION	SITE NUMBER (to be assigned by HQ)
VI	TXD086278058

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition *(Section II)*. File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force *(EN-335)*; 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET (or other identifier)		
Falcon Refinery (AKA UNI, Midgulf & FRC)	Farm Rd. 2725 & Bishop Road		
C. CITY	**D. STATE**	**E. ZIP CODE**	**F. COUNTY NAME**
Ingleside	TX	78362	San Patricio

G. SITE OPERATOR INFORMATION

1. NAME	2. TELEPHONE NUMBER		
Falcon Refining Company	(713)270-1300		
3. STREET	**4. CITY**	**5. STATE**	**6. ZIP CODE**
7322 Southwest Freeway Suite 850	Houston	TX	77074

H. REALTY OWNER INFORMATION *(if different from operator of site)*

1. NAME	2. TELEPHONE NUMBER		
American Energy Leasing C/O Corporation Trust Co., N. 100th and W 10th	(302)658-7581		
3. CITY	**4. STATE**	**5. ZIP CODE**	
Wilmington	Delaware	19801	

I. SITE DESCRIPTION

Abandoned Petroleum Refinery Complex.

J. TYPE OF OWNERSHIP

☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☐ 4. MUNICIPAL ☒ 5. PRIVATE

ATTACHMENT

II. TENTATIVE DISPOSITION *(complete this section last)*

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.)	B. APPARENT SERIOUSNESS OF PROBLEM
	☐ 1. HIGH ☒ 2. MEDIUM ☐ 3. LOW ☐ 4. NONE

C. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE (mo., day, & yr.)
James Stacks	(214)742-6601	12-14-87

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION

1. NAME	2. TITLE	
James Stacks	FIT Chemist	
3. ORGANIZATION		**4. TELEPHONE NO. (area code & no.)**
Ecology and Environment, Inc., 1509 Main, Dallas, TX 75201		(214)742-6601

B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
Brenda Cook	Ecology and Environment, Inc,	(214)742-6601

C. SITE REPRESENTATIVES INTERVIEWED *(corporate officials, workers, residents)*

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
Claude Richey	Plant Manager (713)270-1300	7322 Southwest Fry. #850, Houston, 77074

Reviewed by G... E... Date

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Continued From Front

III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (sources of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
Tenneco	(713)757-2131	1010 Milam, Houston, TX	Unknown solvents

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
Unknown			

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS
Chemical Waste Management Inc.	512-852-8284	6901 Greenwood, Corpus Christi, TX

G. DATE OF INSPECTION (mo., day, & yr.)	H. TIME OF INSPECTION	I. ACCESS GAINED BY: (credentials must be shown in all cases)
9-14-87	1300 hr.	[X] 1. PERMISSION [ ] 2. WARRANT

J. WEATHER (describe)

90°F, sunny, partly cloudy.

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER			
b. SURFACE WATER			
c. WASTE			
d. AIR			
e. RUNOFF		ATTACHMENT	
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify)	X	No samples taken during inspection.	

B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.)

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
RAD 4 mini	Main facility	No readings above background
HNU	Main facility	No readings above background

Continued From Page 2

IV. SAMPLING INFORMATION (continued)

C. PHOTOS

1. TYPE OF PHOTOS: [X] a. GROUND [ ] b. AERIAL

2. PHOTOS IN CUSTODY OF: U.S. EPA (See Attachments) ATTACHMENT

D. SITE MAPPED?

[X] YES. SPECIFY LOCATION OF MAPS: U.S.EPA (See Attachments)

E. COORDINATES

1. LATITUDE (deg.-min.-sec.): 27° 51' 38" N

2. LONGITUDE (deg.-min.-sec.): 97° 10' 44" W

V. SITE INFORMATION

A. SITE STATUS

[ ] 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)

[ ] 2. INACTIVE (Those sites which no longer receive wastes.)

[X] 3. OTHER (specify): Facility may have received waste material (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

B. IS GENERATOR ON SITE?

[ ] 1. NO [X] 2. YES (specify generator's four-digit SIC Code): 2911

C. AREA OF SITE (in acres): 91.12

D. ARE THERE BUILDINGS ON THE SITE?

[ ] 1. NO [X] 2. YES (specify): Refinery control rooms, portable office and lab, guardhouses.

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

A. TRANSPORTER	B. STORER	C. TREATER	D. DISPOSER
[ ] 1. RAIL	[ ] 1. PILE	[ ] 1. FILTRATION	[ ] 1. LANDFILL
[ ] 2. SHIP	[X] 2. SURFACE IMPOUNDMENT	[ ] 2. INCINERATION	[ ] 2. LANDFARM
[X] 3. BARGE	[X] 3. DRUMS	[ ] 3. VOLUME REDUCTION	[ ] 3. OPEN DUMP
[X] 4. TRUCK	[X] 4. TANK, ABOVE GROUND	[ ] 4. RECYCLING/RECOVERY	[X] 4. SURFACE IMPOUNDMENT
[ ] 5. PIPELINE	[ ] 5. TANK, BELOW GROUND	[X] 5. CHEM./PHYS./TREATMENT	[ ] 5. MIDNIGHT DUMPING
[ ] 6. OTHER (specify):	[ ] 6. OTHER (specify):	[ ] 6. BIOLOGICAL TREATMENT	[ ] 6. INCINERATION
		[ ] 7. WASTE OIL REPROCESSING	[ ] 7. UNDERGROUND INJECTION
		[ ] 8. SOLVENT RECOVERY	[ ] 8. OTHER (specify):
		[ ] 9. OTHER (specify):	

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this for..

[X] 1. STORAGE [ ] 2. INCINERATION [ ] 3. LANDFILL [X] 4. SURFACE IMPOUNDMENT [ ] 5. DEEP WELL

[ ] 6. CHEM/BIO/PHYS TREATMENT [ ] 7. LANDFARM [ ] 8. OPEN DUMP [ ] 9. TRANSPORTER [ ] 10. RECYCLOR/RECLAIMER

VII. WASTE RELATED INFORMATION

A. WASTE TYPE

[X] 1. LIQUID [ ] 2. SOLID [X] 3. SLUDGE [ ] 4. GAS

B. WASTE CHARACTERISTICS

[ ] 1. CORROSIVE [ ] 2. IGNITABLE [ ] 3. RADIOACTIVE [X] 4. HIGHLY VOLATILE

[ ] 5. TOXIC [ ] 6. REACTIVE [ ] 7. INERT [ ] 8. FLAMMABLE

[X] 9. OTHER (specify): Toxicity is not established, but the vapor is noxious.

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

There are a number of log books and other documents located in the control rooms and offices on-site which may contain information about materials received and processed.

10 003

2 5 6 10 12 2 0 12 52

Continued From Front

VII. WASTE RELATED INFORMATION (continued)

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT: Unknown	AMOUNT: 75000	AMOUNT: Unknown	AMOUNT: None	AMOUNT: None	AMOUNT: None
UNIT OF MEASURE:	UNIT OF MEASURE: gallons	UNIT OF MEASURE:	UNIT OF MEASURE:	UNIT OF MEASURE:	UNIT OF MEASURE:
[ ] (1) PAINT, PIGMENTS	[X] (1) OILY WASTES	[ ] (1) HALOGENATED SOLVENTS	[ ] (1) ACIDS	[X] (1) FLYASH	[ ] (1) LABORATORY, PHARMACEUT.
[ ] (2) METALS SLUDGES	[ ] (2) OTHER(specify):	[X] (2) NON-HALOGNTD. SOLVENTS	[ ] (2) PICKLING LIQUORS	[ ] (2) ASBESTOS	[ ] (2) HOSPITAL
[ ] (3) POTW		[ ] (3) OTHER(specify):	[ ] (3) CAUSTICS	[ ] (3) MILLING/MINE TAILINGS	[ ] (3) RADIOACTIVE
[ ] (4) ALUMINUM SLUDGE			[ ] (4) PESTICIDES	[ ] (4) FERROUS SMELTING WASTES	[ ] (4) MUNICIPAL
[X] (5) OTHER(specify): Oil sludge and API separator residue.			[ ] (5) DYES/INKS	[ ] (5) NON-FERROUS SMLTG. WASTES	[ ] (5) OTHER(specify):
			[ ] (6) CYANIDE	[ ] (6) OTHER(specify):	
			[ ] (7) PHENOLS		
			[ ] (8) HALOGENS		
			[ ] (9) PCB		
			[ ] (10) METALS		
			[ ] (11) OTHER(specify):		

ATTACHMENT

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

1. SUBSTANCE	2. FORM (mark 'X') a. SOLID	b. LIQ.	c. VAPOR	3. TOXICITY (mark 'X') a. HIGH	b. MED.	c. LOW	d. NONE	4. CAS NUMBER	5. AMOUNT	6. UNIT
1-phenylethanol		X						98-85-1	Unknown	
Xylene		X						1330-20-7	Unknown	
Cyclohexanediol		X						931-17-9	Unknown	
Butanol		X						71-36-3	Unknown	

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

[X] A. HUMAN HEALTH HAZARDS

Local residents have attributed headaches, rashes, and nausea to volatiles released fro the site.

10 004

Continued From Page 4

VIII. HAZARD DESCRIPTION (continued)

☒ B. NON-WORKER INJURY/EXPOSURE

Local resident Brenda Shedd, who lives on Bishop Road adjacent to the site, reported that her son fell into a "sinkhole" associated with a Falcon Pipeline on her property and was covered with an oily sludge.

☐ C. WORKER INJURY/EXPOSURE

☐ D. CONTAMINATION OF WATER SUPPLY

ATTACHMENT

☐ E. CONTAMINATION OF FOOD CHAIN

☒ F. CONTAMINATION OF GROUND WATER

Due to the very shallow alluvial aquifer (4.5 ft.), release of substances to groundwater is highly probable.

☒ G. CONTAMINATION OF SURFACE WATER

There is evidence of runoff from the site into Redfish Bay, and the spill reported by TACB (Attachment B) involved the marshy zone directly connected to the bay.

10 005

Continued From Front

VIII. HAZARD DESCRIPTION (continued)

☐ H. DAMAGE TO FLORA/FAUNA

☐ I. FISH KILL

☒ J. CONTAMINATION OF AIR

The TACB report (Attachment B) describes the release of volatiles to surrounding areas.

☒ K. NOTICEABLE ODORS

Local residents have complained to the Ingleside Police Dept., TACB, and EPA about odors from the site.

☐ L. CONTAMINATION OF SOIL

ATTACHMENT

☐ M. PROPERTY DAMAGE

Continued From Page 6

VIII. HAZARD DESCRIPTION (continued)

☐ N. FIRE OR EXPLOSION

☒ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

One leaking container was noted during the FIT inspection on 9-14-87. The TACB report of 4-9-87 describes a pipeline leak at the facility which was the source of a 30' by 60 zone of contaminated soil (Attachment B).

☐ P. SEWER, STORM DRAIN PROBLEMS

☐ Q. EROSION PROBLEMS

☐ R. INADEQUATE SECURITY

ATTACHMENT

☐ S. INCOMPATIBLE WASTES

10 007

VIII. HAZARD DESCRIPTION (continued)

☐ T. MIDNIGHT DUMPING

ATTACHMENT

☒ U. OTHER (specify): On 8-10-87, FIT was tasked to perform a recon inspection of the Falcon Refinery site, to develop a plan for sampling of the site, and to determine the potential for migration into the intracoastal waterway. The sampling plan is included herein.

An inspection was performed by James Stacks and Brenda Cook on 9-14-87. The team observed a large petroleum refinery complex covering approximately 90 acres. Objects of interest included a main processing area, 22 large storage tanks, an elaborate network of pipelines leading to a dock facility in Redfish Bay (Gulf of Mexico), a waste pond, an API separato and clarifier, a truck terminal, offices, control rooms complete with records, a small laboratory, and approximately 48 drums containing some type of material. A marshy area of Redfish bay is located SE of the facility, vacant land is to the SW, a small fabricating business is to the NW, and a small residential area lies to the NE. A site sketch and photographs are attached showing the locations of the above areas.

The team noted a strong organic odor (not a typical petroleum odor) throughout the facilit Because of this, the team was limited in the extent to which contents of tanks and waste volume could be estimated because of risk of exposure and safety factors. Appropriate levels of personal protection should be used in any future operations.

Interviews with various officials and residents and a file search has indicated that the facility was built in 1977 by UNI Oil, Inc. In 1980, title to the facility was transferre to Mid Gulf Energy. In 1985, title was transferred to Falcon Refining (See Attachment A)

6 0 0 2 2 2 0 7

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
1. IN RESIDENTIAL AREAS	5000	150	1000	3 MI
2. IN COMMERCIAL OR INDUSTRIAL AREAS	2500	100	300	3 MI
3. IN PUBLICLY TRAVELLED AREAS	5000	1000	300	3MI
4. PUBLIC USE AREAS (parks, schools, etc.)	2000	10	20	3MI

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify unit)	B. DIRECTION OF FLOW	C. GROUNDWATER USE IN VICINITY
4.5 FT.	SOUTH	INDUSTRIAL (NO DRINKING)
D. POTENTIAL YIELD OF AQUIFER	**E. DISTANCE TO DRINKING WATER SUPPLY (specify unit of measure)**	**F. DIRECTION TO DRINKING WATER SUPPLY**
>1000 GAL/MIN	10 MI	NW

G. TYPE OF DRINKING WATER SUPPLY

☐ 1. NON-COMMUNITY < 15 CONNECTIONS* ☒ 2. COMMUNITY (specify town): > 15 CONNECTIONS INGLESIDE (CORPUS CHRISTI)

☒ 3. SURFACE WATER ☐ 4. WELL

Continue On Page 9

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X. WATER AND HYDROLOGICAL DATA (continued)

H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COMMUNITY (mark 'X')	5. COMMUNITY (mark 'X')
		No drinking water wells within 1/4 mile.		
		ATTACHMENT		

I. RECEIVING WATER

1. NAME Redfish Bay (Gulf of Mexico)

☐ 2. SEWERS ☐ 3. STREAMS/RIVERS ☐ 4. LAKES/RESERVOIRS ☒ 5. OTHER (specify): Ocean

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

Shellfish waters, contact recreation, exceptional quality aquatic habitat State (TWC) Water Quality Standards include:Minimum 5mg/l dissolved O_2, pH 6.5-9.0, fecal coliform < 14/100 ml.

XI. SOIL AND VEGITATION DATA

LOCATION OF SITE IS IN:

☐ A. KNOWN FAULT ZONE ☐ B. KARST ZONE ☒ C. 100 YEAR FLOOD PLAIN ☒ D. WETLAND

☐ E. A REGULATED FLOODWAY ☐ F. CRITICAL HABITAT ☐ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

'X'	A. OVERBURDEN	'X'	B. BEDROCK (specify below)	'X'	C. OTHER (specify below)
	1. SAND			X	Quaternary sands, silts, and clays
	2. CLAY				
	3. GRAVEL				

XIII. SOIL PERMEABILITY

☐ A. UNKNOWN ☐ B. VERY HIGH (100,000 to 1000 cm/sec.) ☐ C. HIGH (1000 to 10 cm/sec.)

☒ D. MODERATE (10 to .1 cm/sec.) ☐ E. LOW (.1 to .001 cm/sec.) ☐ F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

☒ 1. YES ☐ 2. NO 3. COMMENTS:

H. DISCHARGE AREA

☐ 1. YES ☒ 2. NO 3. COMMENTS

I. SLOPE

1. ESTIMATE % OF SLOPE: 0.5%

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.: Southeast from 5 ft. elevation to coast line.

J. OTHER GEOLOGICAL DATA

Located on Quaternary Beaumont Formation barrier island and beach desposits which form part of the Chicot Aquifer. Local groundwater reported to be unusable due to salt water and industrial contamination.

Continued From Front

XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark 'X') 1. YES	2. NO	3. UNKNOWN
Solid Waste Registration	TWC	31288	9-21-78	Inactive on 6-1-87			X
Wastewater Disposal	TWC	02142	3-30-83	30-30-88			X
Texas Clean Air Act	TACB	C-5027 C-6625	9-29-78 5-21-82	9-20-93 5-21-97		X	
NPDES	EPA	TX0076635	12-17-86	12-16-91		X	X
PSD (Clean air Act)	EPA	PSD-TX-229	3-12-82	9-12-83			X
RCRA ID #	EPA	TXD086278058	N/A	N/A			N/A

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

☐ NONE ☒ YES (summarize in this space)

4-16-80 TDWR Inspection

11-7-80 TDWR sent letter requesting delinquent annual reports.

2-25-82 TDWR Inspection notes violations for incorrect hazardous waste registration. No determination on spent caustic, inadequate security, inadequate training records and inadequate operating records. Letter indicating noncompliance was issued.

8-28-84-TDWR Industrial Solid Waste Disposal Inspection-Found non-compliant because of improper registration of name change to mid Gulf Energy.

11-15-85-Letter from TWC indicates loss of interim status-Requests closure plan.

1-27-86-Letter from TWC requesting delinquent 1985 on-site and disposal reports.

8-26-86-RCRA/LOIS Inspection.

1-8-86-TACB notice of violation for nuisance odor and permit violation.

11-10-86-3007 letter sent from EPA. (See Attachment A)

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition *(Section II)* information on the first page of this form.

ATTACHMENT

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET (ATTACHMENT A)

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

ATTACHMENT

Corresponding number on form	Additional Remark and/or Explanation
VIII. U.	(AKA FRC Energy). In 1987, the property was foreclosed on by American Energy Leasing, a Delaware Corporation. Tracing ownership of the facility is confusing, but it appears that at least some of the principals are the same in these different corportations. American Energy Leasing's address is the same as Falcon's Houston address according to local tax officials. American Energy Leasing listed Falcon's attorney as trustee during foreclosure. Claude Richy of Falcon indicated to TACB officials that a Thomas Hajecate was owner of both UNI and Falcon. Records indicate that a substantial amount of waste from a 104,000 bbl of a material received from Tenneco in January 1986 remains in the pipelines and tanks. TACB officials have noted that noxious odor complaints from surrounding residents began when Falcon started processing this material and have continued ever since. Mr. Tom Palmer of TACB has concluded that the Tenneco material was not virgin petroleum, but a mixture of organic solvents and is probably waste. TACB analytical results from a sample of material taken from a tank on 1-13-87 support this assumption. The TACB results and reports are attached. (Attachment B). A telephone interview with Brenda Shedd, a local resident adjacent to the site, indicates that the odor problem still exists and that residents suspect that the vapors are causing health problems. Ms. Shedd said that the 9 households located next to the site have been complaining to regulatory agencies about the problem for some time. Also included are US Coast Guard files on the Falcon dock facility which are not currently in the EPA file (Attachment C). The Coast Guard issued a letter permitting operation of the dock. Inspection reports are included. The intracoastal waterway is part of Redfish Bay at this location. The potential for migration into Redfish Bay is great since the facility is located on the coast and site history indicates that release have occurred. FIT recommends the site be sampled as per the proposed plan outlined below. This plan is designed to yield information concerning the nature of the contaminants on-site and the extent to which contaminants have been released to surrounding properties. The plan does not include direct sampling of any concentrated waste material stored on site, but any future inspections should include plans to accurately determine the amount of material in the tanks and lines.

POTENTIAL HAZARDOUS WASTE SIT'
SIT' INSPECTION REPORT SUPPLEMENT SHEET (ATTACHMENT A)

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding number on form	Additional Remark and/or Explanation

The proposed sampling plan calls for the collection of 9 low concentration soil and 5 low concentration water samples. Extensive background sampling is needed in this area because of the difficulty in isolating the site from numerous surrounding industries likely to produce similar contaminants. For this reason, two background soils have been included to determine if contamination in the marsh area SE of the site is attributable to Falcon or possibly the other industries bordering that area to the SE. Two background soils NW of FM 2725 are included to screen out any downgradient migration from industries which are located NW of the site at higher elevations. A backgound water sample of Redfish Bay at an inlet to the area of concern has also been included. No air sampling has been included because it is assumed the source of the odors can be detected in the VOC analysis o: other matrices. The analyses should include a full inorganic and organic TCL scan of all samples.

PROPOSED SAMPLE LOCATIONS ARE LISTED BELOW:

STA #	STATION LOCATION	MATRIX	CONCENTRATION
1	BACKROUND SE OF MARSH AT DRAINAGE PATH OF ADJACENT INDUSTRY.	SOIL	LOW
2	BACKGROUND SE OF MARSH AT A SECOND DRAINAGE PATH.	SOIL	LOW
3	SOIL FROM AREA OF PIPELINE LEAK IN 1987.(LOCATED BY CLAMP)	SOIL	LOW
4	RUNOFF PATH SE OF TANKS #26 & #27.	SOIL	LOW
5	TANK IMPOUND AREA TANKS #26 & #27.	SOIL	LOW
6	SOIL FROM MAIN PROCESS AREA.	SOIL	LOW
7	BACKGROUND FROM NE OF FM2725	SOIL	LOW
8	BACKGROUND AT SECOND LOCATION NE OF FM2725	SOIL	LOW
9	SOIL FROM SINKHOLE AT SHEDD RESIDENCE.	SOIL	LOW
10	WATER FROM LINED LAGOON	WATER	LOW

ATTACHMENT D

10 012

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET (ATTACHMENT A)

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding number on form	Additional Remark and/or Explanation PROPOSED SAMPLE LOCATIONS ARE LIISTED NELOW:			
CONT. FROM ATTACHMENT	STA #	STATION LOCATION	MATRIX	CONCENTRATION
	11	EFFLUENT COLLECTED FROM PROCESS AREA DRAIN SYSTEM	WATER	LOW
	12	WATER FROM SE OF SITE	WATER	LOW
	13	BACKGROUND, REDFISH BAY	WATER	LOW
	14	DUPLICATE-APPROPRIATE LOCATION TO BE DETERMINED AT TIME OF SAMPLING.	WATER	LOW
XV.	1-16-86-TACB notice of violation for nuisance odor.			
	4-9-87-TACB notice of violation for nuisance odor.			

ATTACHMENT

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT

Waste pond

2. STABILITY/CONDITION OF EMBANKMENTS

Good

3. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc.)*

☒ YES ☐ NO Coastal with flooding and evidence of dike erosion.

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE

☒ YES ☐ NO TACB analysis indicates presence of ignitable compounds onsite.

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT

☐ YES ☐ NO Unknown

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT

☐ YES ☒ NO

7. IMPOUNDMENT HAS LINER SYSTEM

☒ YES ☐ NO Polymer liner

7a. INTEGRITY OF LINER SYSTEM CHECKED

☐ YES ☒ NO

7b. FINDINGS

8. SOIL STRUCTURE AND SUBSTRUCTURE

The area is overlain by several hundred feet of alternating layers of sands, silts and clays.

9. MONITORING WELLS

☐ YES ☒ NO

10. LENGTH, WIDTH, AND DEPTH

LENGTH 150' WIDTH 30' DEPTH 3'

11. CALCULATED VOLUMETRIC CAPACITY

100,987 gal.

12. PERCENT OF CAPACITY REMAINING

25%

ATTACHMENT

13. ESTIMATE FREEBOARD

1 ft.

14. SOLIDS DEPOSITION

☒ YES ☐ NO

15. DREDGING DISPOSAL METHOD

No

16. OTHER EQUIPMENT

Refinery process waste water plus other refinery effluent streams and runoff were gathered together and sent to a water storage tank. This tank fed an API seperator where most of the oil was removed and sent back to a slop tank. The water was then treated by a dissolved air flotation chamber(photos 1,2 & 3 were taken from on top of this DAF unit). The water then flowed into the aeration pond (shown in photos 1,2, & 3) where wastes were converted to sludge. This sludge was then removed in a clarifier (shown in photo #4). The water then passed through a 6" line to an outlet located in Corpus Christi Bay near the Sunoco terminal.

This discharge was covered under the NPDES permit which is valid through December 1991.

STORAGE FAC TIES SITE INSPECTION REPORT
Supplemental Report

INSTRUCTION
Answer and Explain as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE
[ ] YES [X] NO

2. STORAGE AREA HAS A CONFINEMENT STRUCTURE
[X] YES [ ] NO

3. EVIDENCE OF LEAKAGE/OVERFLOW *(If "Yes", document where and how much runoff is overflowing or leaking from containment)*
[X] YES [ ] NO

There is evidence of runoff and breaks in the integrity of the dikes surrounding the tanks.

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS

There are approximately 48 partially full drums, most of which are 50 gal. capacity.

5. GLASS OR PLASTIC STORAGE CONTAINERS USED
[ ] YES [X] NO

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS
There are 22 tanks, approximate total volume 600,000 gal, which TACB reports contain some residual materials.

7. NOTE LABELING ON CONTAINERS

Tank numbers only.

8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS *(If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)*
[X] YES [ ] NO

Attached communication from TACB indicates a leak incident and attached photograph # 10B shows a tank in the refinery area that was leaking during the FIT inspection.

ATTACHMENT

9. DIRECT VENTING OF STORAGE TANKS
[X] YES [ ] NO

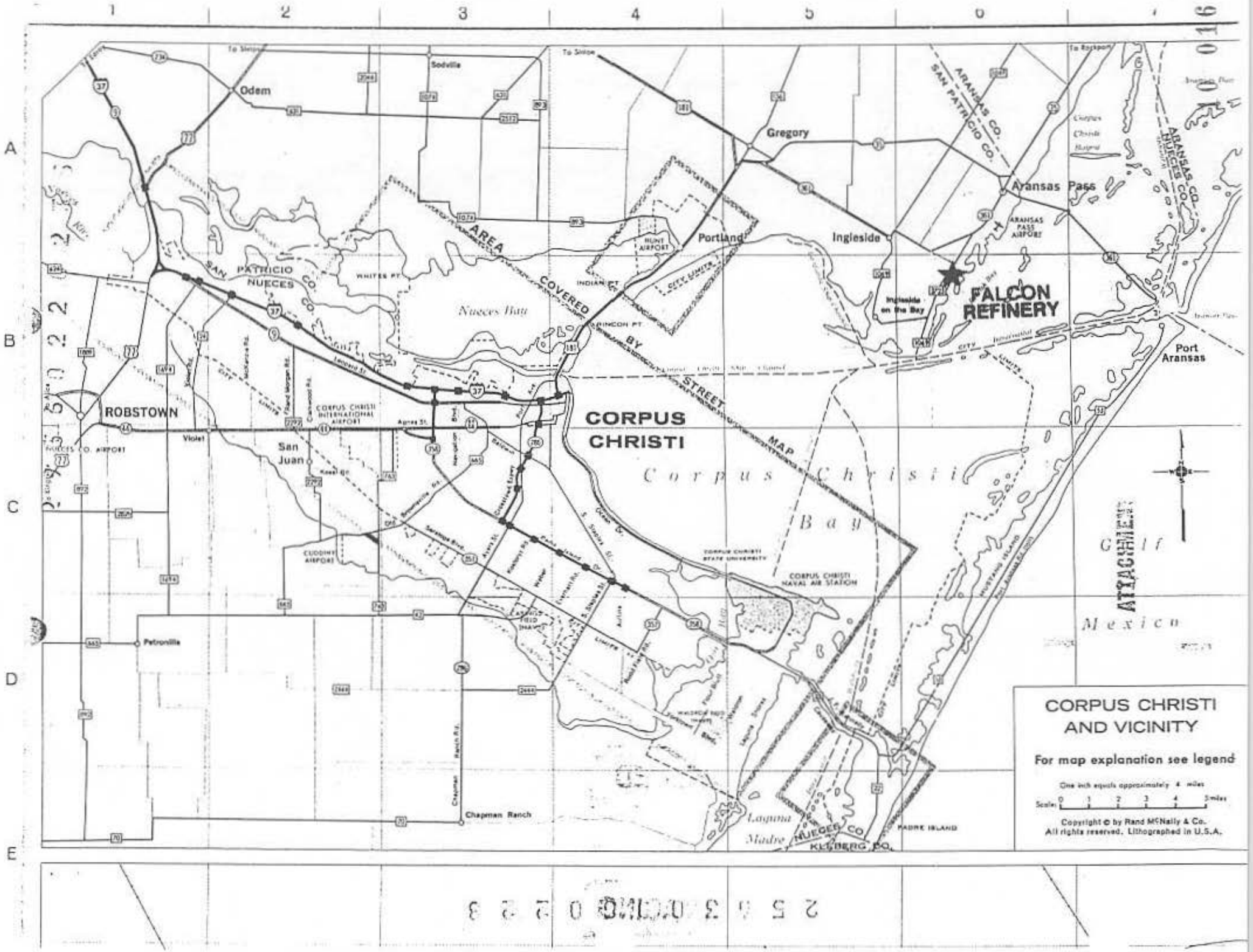
10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
[ ] YES [X] NO

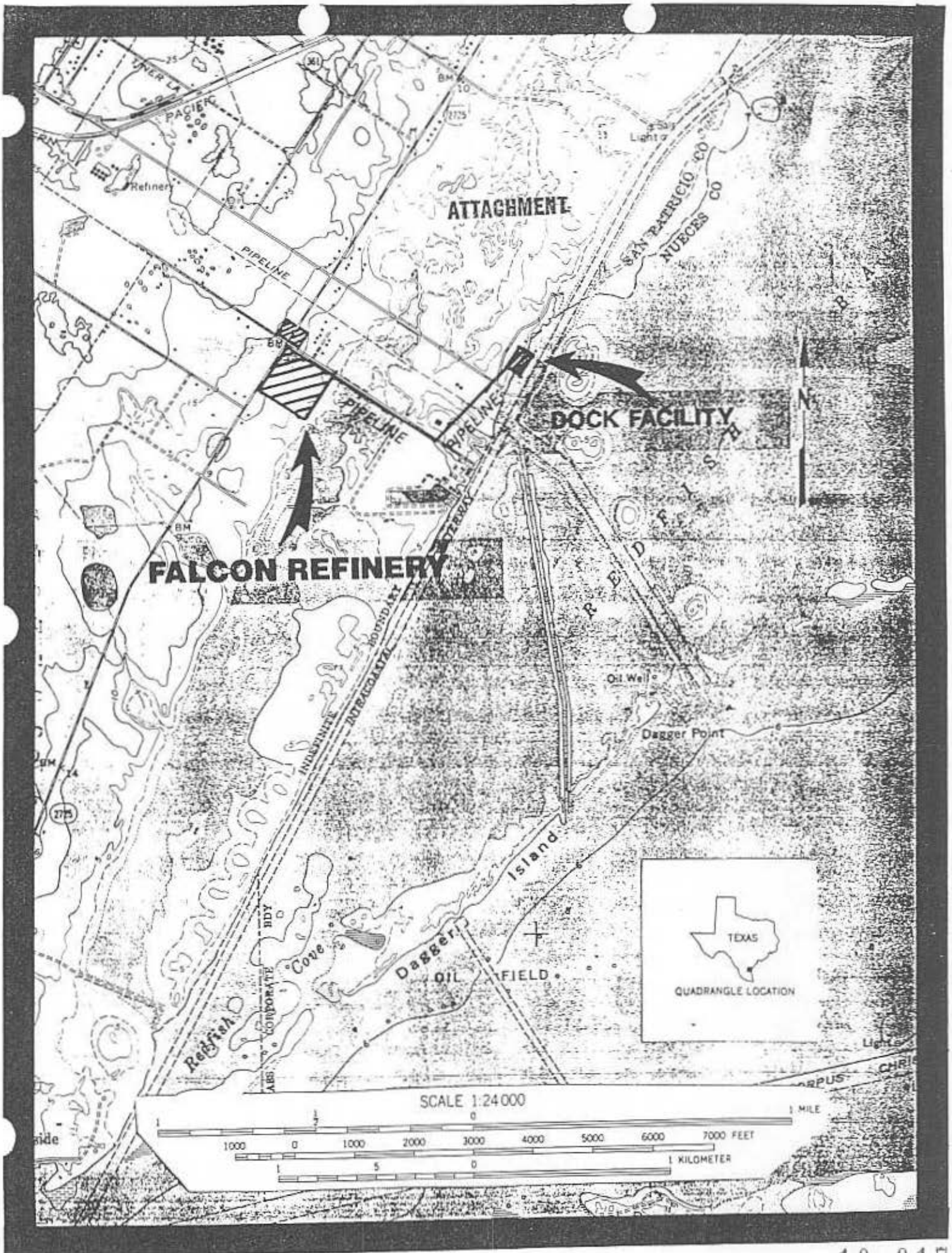
11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
[ ] YES [X] NO

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES
[ ] YES [X] NO

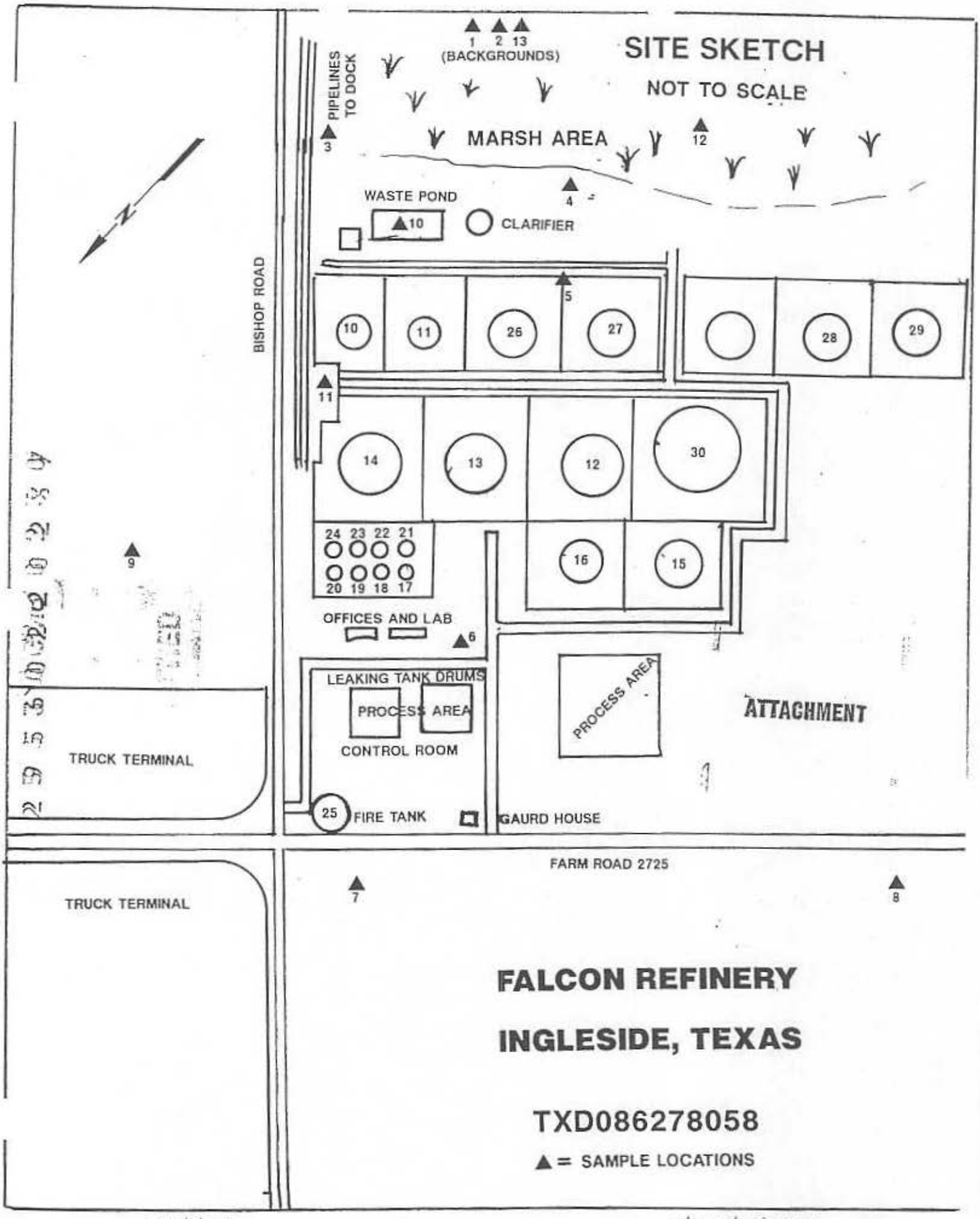
TACB inspection notes that is noxious material in lines from the last run.

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS
[ ] YES [ ] NO N/A


CORPUS CHRISTI AND VICINITY
For map explanation see legend
One inch equals approximately 4 miles
Scale: 0 1 2 3 4 5 miles
Copyright © by Rand McNally & Co.
All rights reserved. Lithographed in U.S.A.
CORPUS CHRISTI
ROBSTOWN
FALCON REFINERY
Port Aransas
Aransas Pass
Ingleside
Portland
Gregory
Odem
Sodville
San Juan
Petronilla
Chapman Ranch
Violet
Nueces Bay
Corpus Christi Bay
Gulf of Mexico
Laguna Madre
AREA COVERED BY MAP
SAN PATRICIO CO.
NUECES CO.
ARANSAS CO.
KLEBERG CO.
PADRE ISLAND
CORPUS CHRISTI INTERNATIONAL AIRPORT
NUECES CO. AIRPORT
CUDDIHY AIRPORT
ARANSAS PASS AIRPORT
CORPUS CHRISTI STATE UNIVERSITY
CORPUS CHRISTI NAVAL AIR STATION
ATTACHMENT


ATTACHMENT
DOCK FACILITY
FALCON REFINERY
PIPELINE
PIPELINE
PIPELINE
SAN PATRICIO CO
NUECES CO
INDEFINITE
INTRACOASTAL
BOUNDARY
Oil Well
Dagger Point
Island
Cove
Dagger
OIL
FIELD
Refinery
TEXAS
QUADRANGLE LOCATION
SCALE 1:24000
1 MILE
7000 FEET
1 KILOMETER

10 017

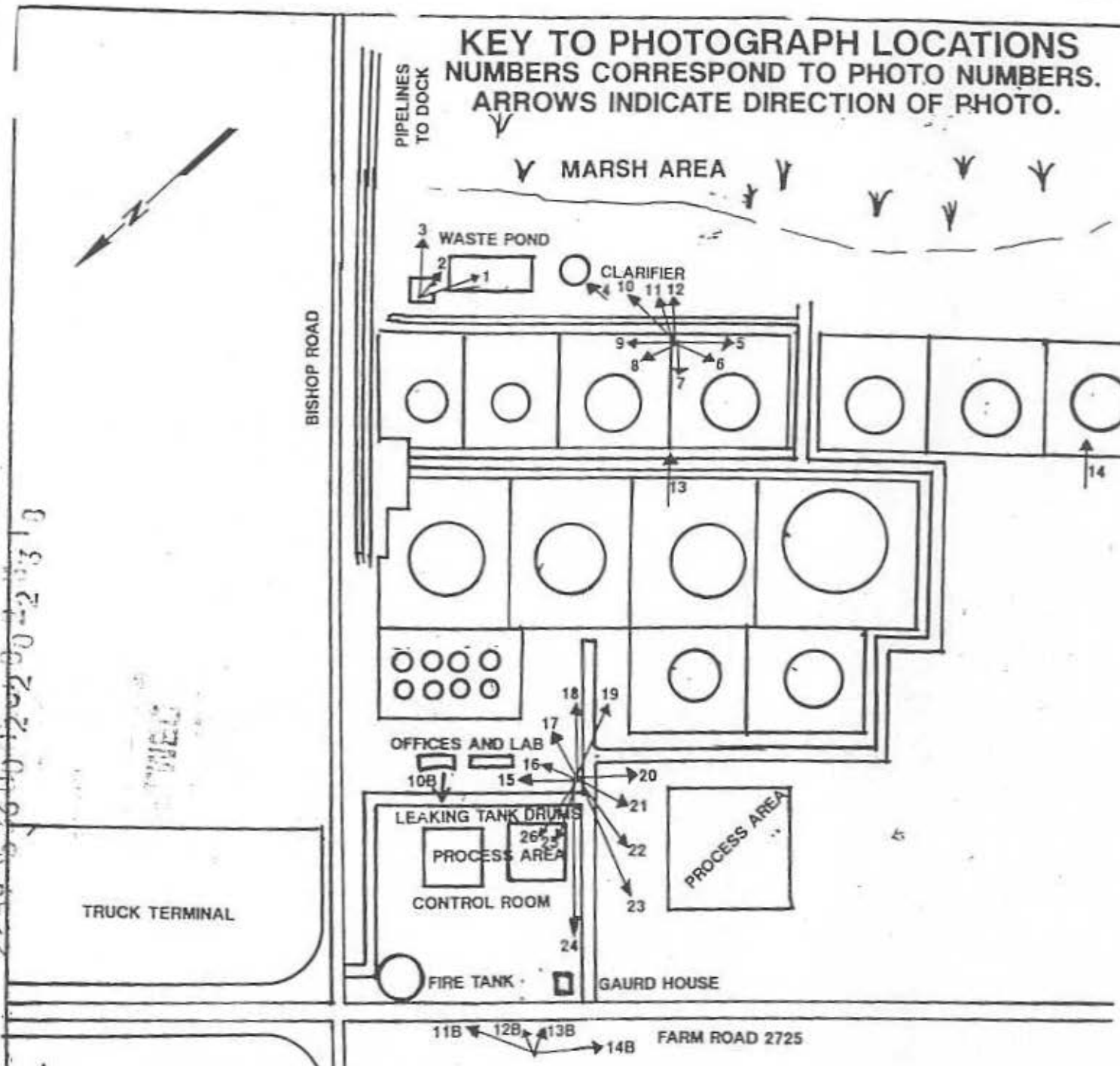


FALCON REFINERY

INGLESIDE, TEXAS

TXD086278058

▲ = SAMPLE LOCATIONS


KEY TO PHOTOGRAPH LOCATIONS
NUMBERS CORRESPOND TO PHOTO NUMBERS.
ARROWS INDICATE DIRECTION OF PHOTO.
PIPELINES TO DOCK
MARSH AREA
WASTE POND
CLARIFIER
BISHOP ROAD
OFFICES AND LAB
LEAKING TANK DRUMS
PROCESS AREA
CONTROL ROOM
PROCESS AREA
TRUCK TERMINAL
FIRE TANK
GAURD HOUSE
FARM ROAD 2725
TRUCK TERMINAL
FALCON REFINERY
INGLESIDE, TEXAS
ATTACHMENT
TXD086278058

10 019

PG___OF___

ATTACHMENT

NO. 1

PHOTOGRAPHER/WITNESS

STACKS / COOK

DATE / TIME / DIRECTION

9-14-87 / 1300hrs / SOUTH

COMMENTS

WASTE POND AT BACK OF FACILITY

PHOTOGRAPHER/WITNESS

STACKS / COOK

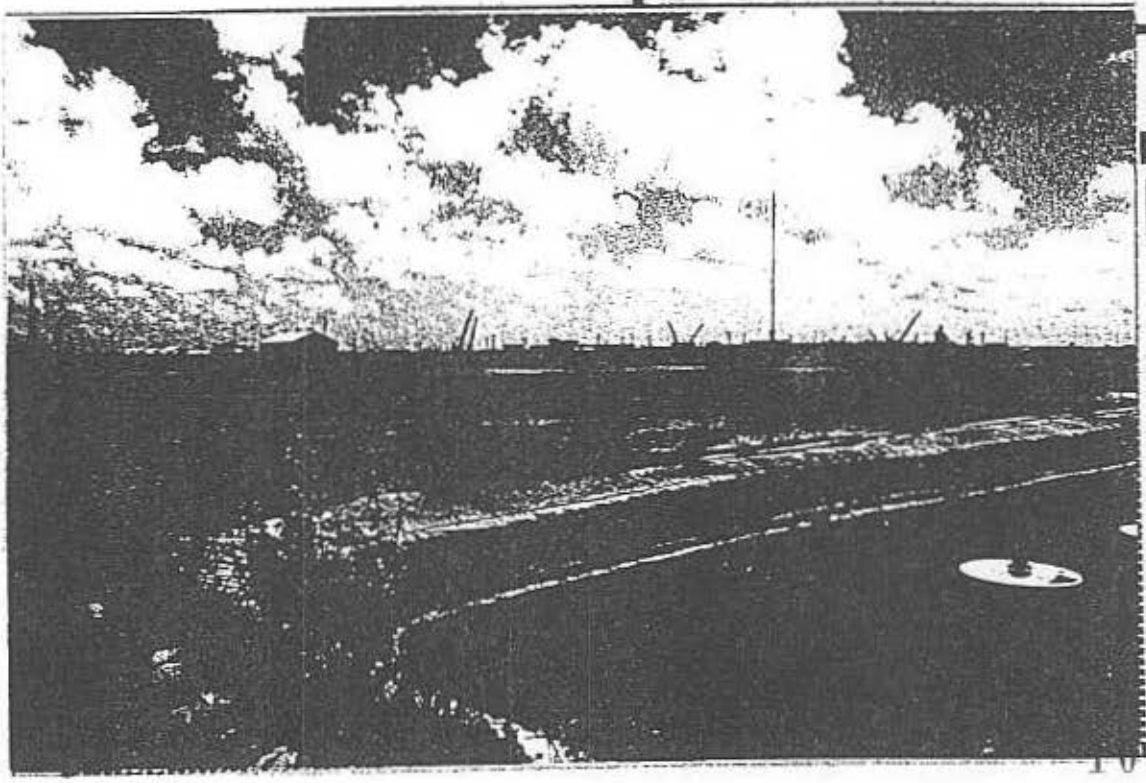
DATE / TIME / DIRECTION

9-14-87 / 1300hrs / SOUTH EAST

COMMENTS

WASTE POND AND MARSHY AREA AT BACK OF FACILITY

NO. 2



PG___OF___

ATTACHMENT

NO. 3

PHOTOGRAPHER/WITNESS

STACKS / COOK

DATE / TIME / DIRECTION

9-14-87 / 1349 hrs / SE

COMMENTS

PIPELINE LEADING FROM FALCON REFINERY TO DOCK.

PHOTOGRAPHER/WITNESS

STACKS / COOK

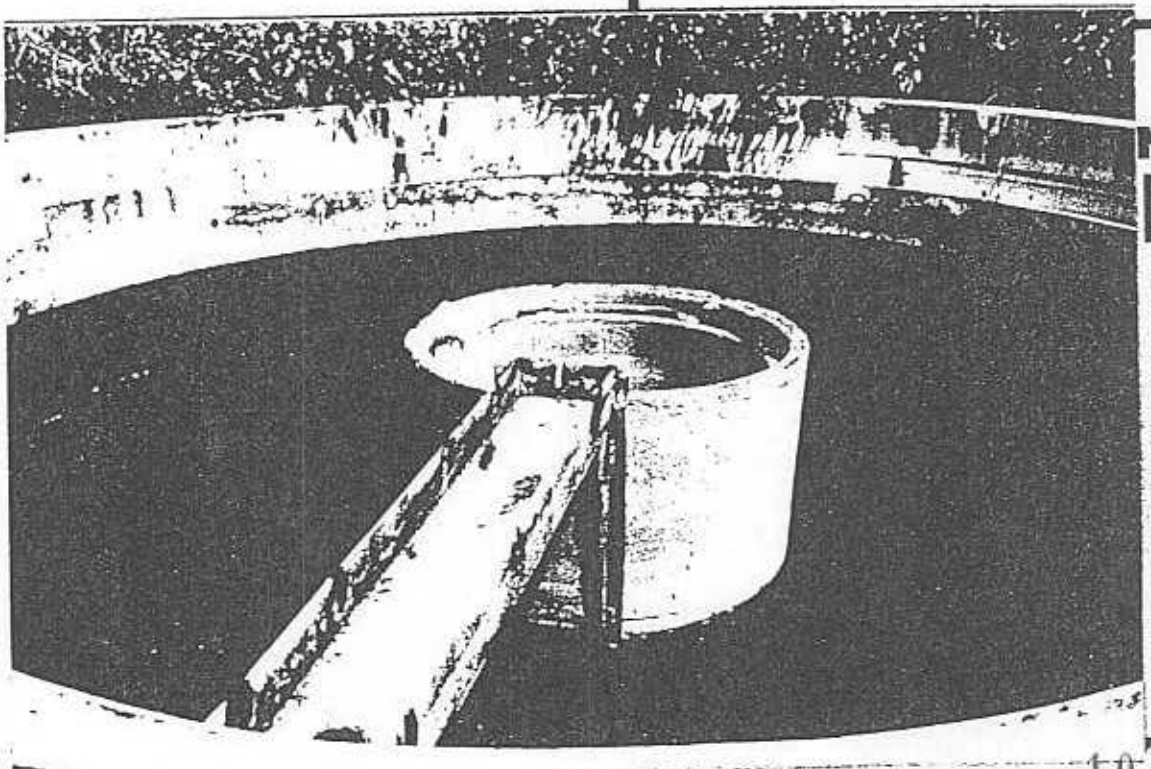
DATE / TIME / DIRECTION

9-14-87 / 1404 hrs / E

COMMENTS

CLARIFIER TANK AT REAR OF FACILITY

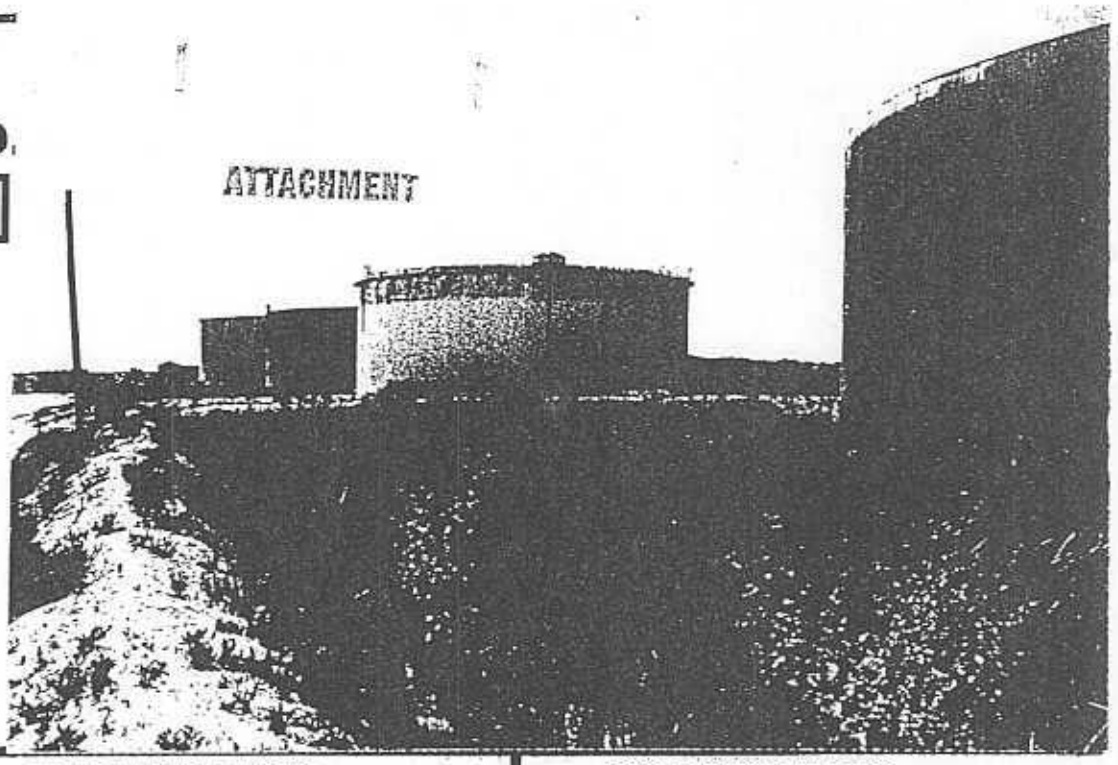
NO. 4



PG ___ OF ___

NO. 5

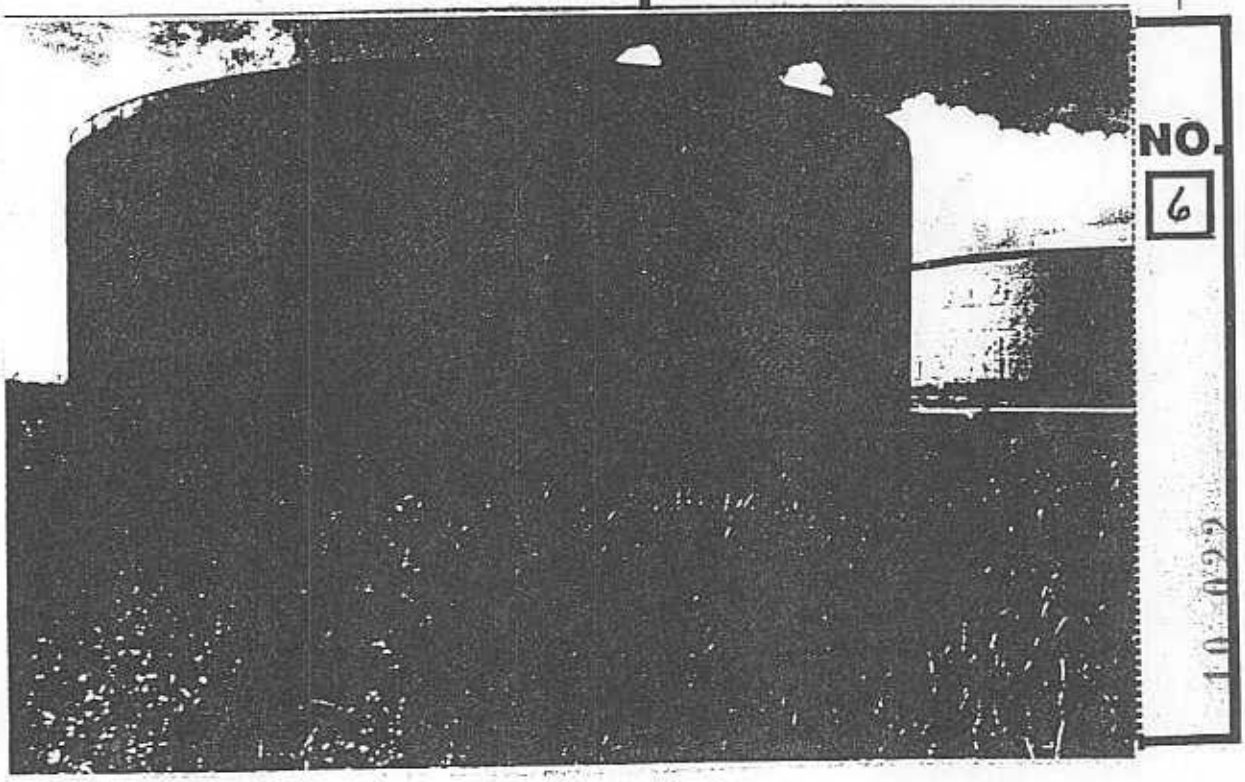
ATTACHMENT



PHOTOGRAPHER/WITNESS
STACKS / COOK
DATE / TIME / DIRECTION
9-14-87 / 1410 hrs / SW
COMMENTS
BACK ROW OF STORAGE TANKS AND DIKES.

PHOTOGRAPHER/WITNESS
STACKS / COOK
DATE / TIME / DIRECTION
9-14-87 / 1410 hrs / SW
COMMENTS
BACK ROW OF STORAGE TANKS

NO. 6

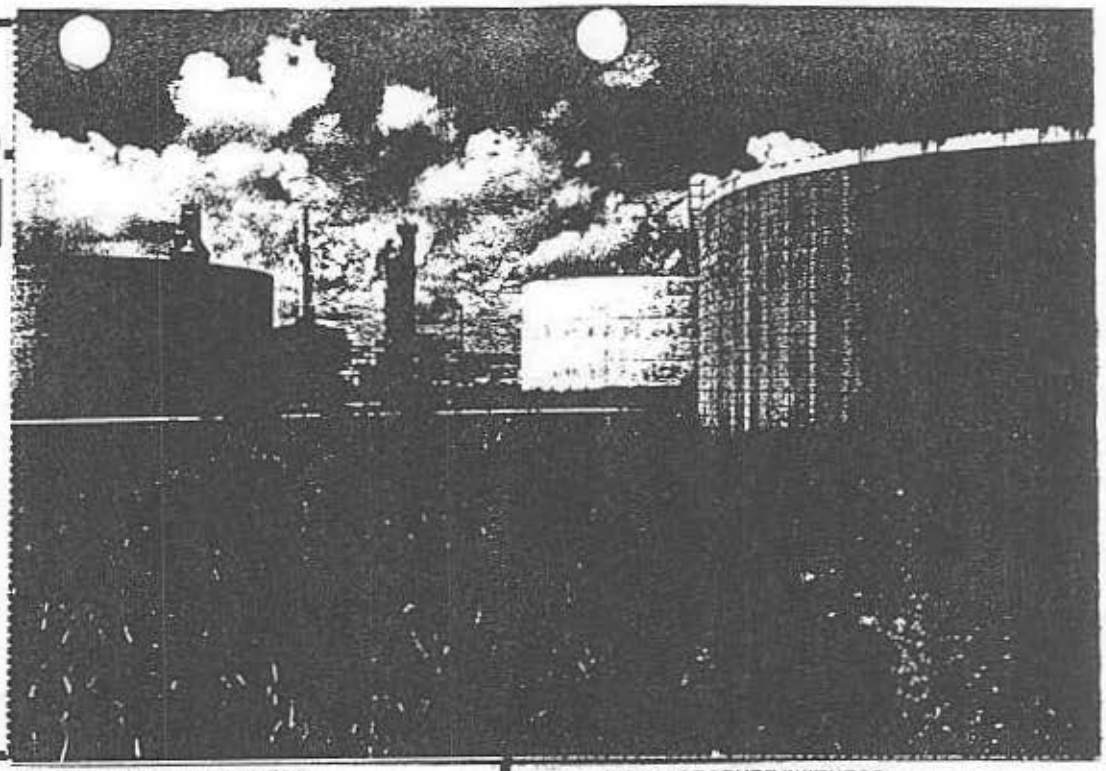


22 59 05 36 00-12-92 00 33 12 74

PG ___ OF ___

ATTACHMENT

NO. 7



PHOTOGRAPHER/WITNESS

STACKS/COOK

DATE / TIME / DIRECTION

9-14-87/1410 hrs/NW

COMMENTS

VIEW OF PROCESSING AREA FROM REAR OF FACILITY

PHOTOGRAPHER/WITNESS

STACKS/COOK

DATE / TIME / DIRECTION

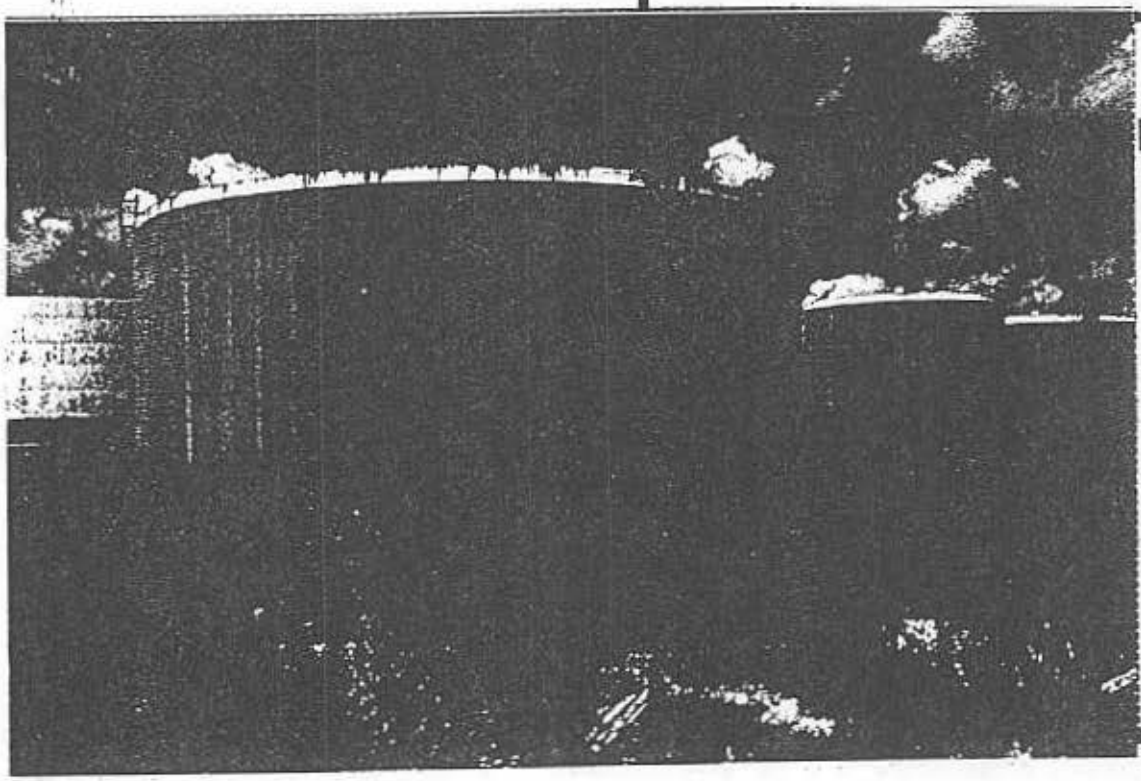
9-14-87/1410 hrs/N

COMMENTS

BACK ROW OF STORAGE TANKS

ATTACHMENT

NO. 8



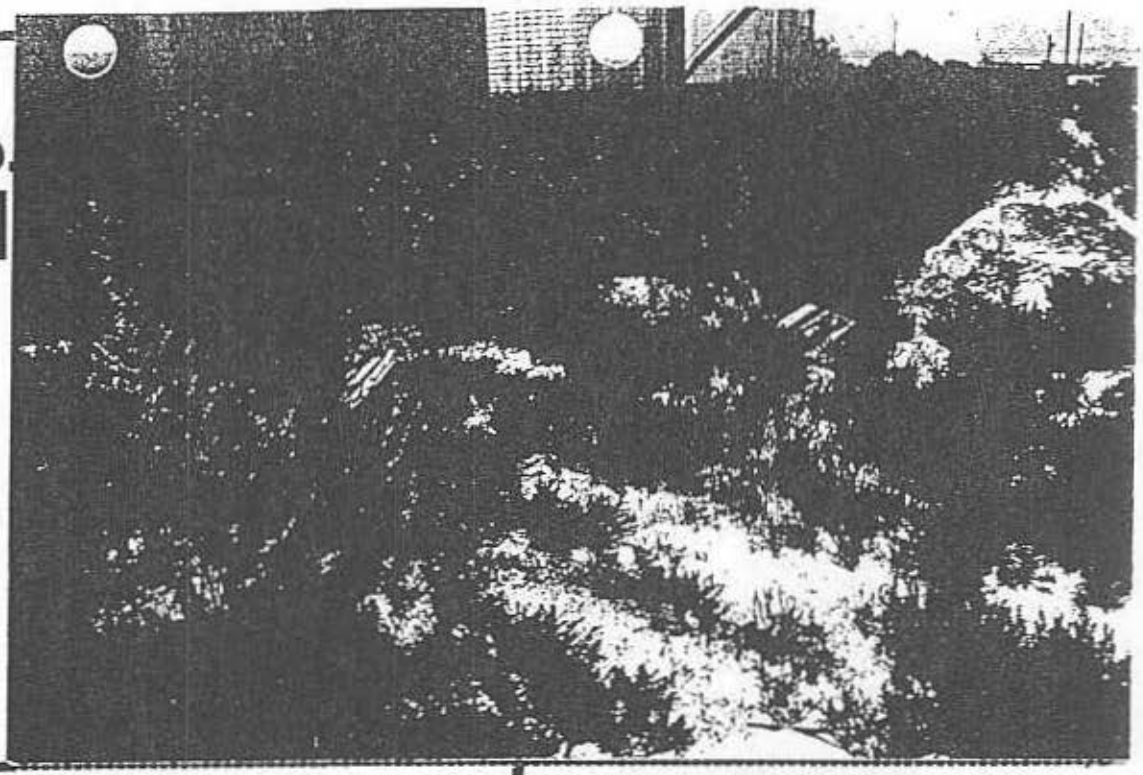
10 023

22 59 35 36 00 12 00 33 12 33

PG ___ OF ___

ATTACHMENT

NO. 9



PHOTOGRAPHER/WITNESS

STACKS / COOK

DATE / TIME / DIRECTION

9-14-87 / 1417 hrs / NE

COMMENTS

POSSIBLE RUNOFF PATH FROM STORAGE TANKS.

PHOTOGRAPHER/WITNESS

STACKS / COOK

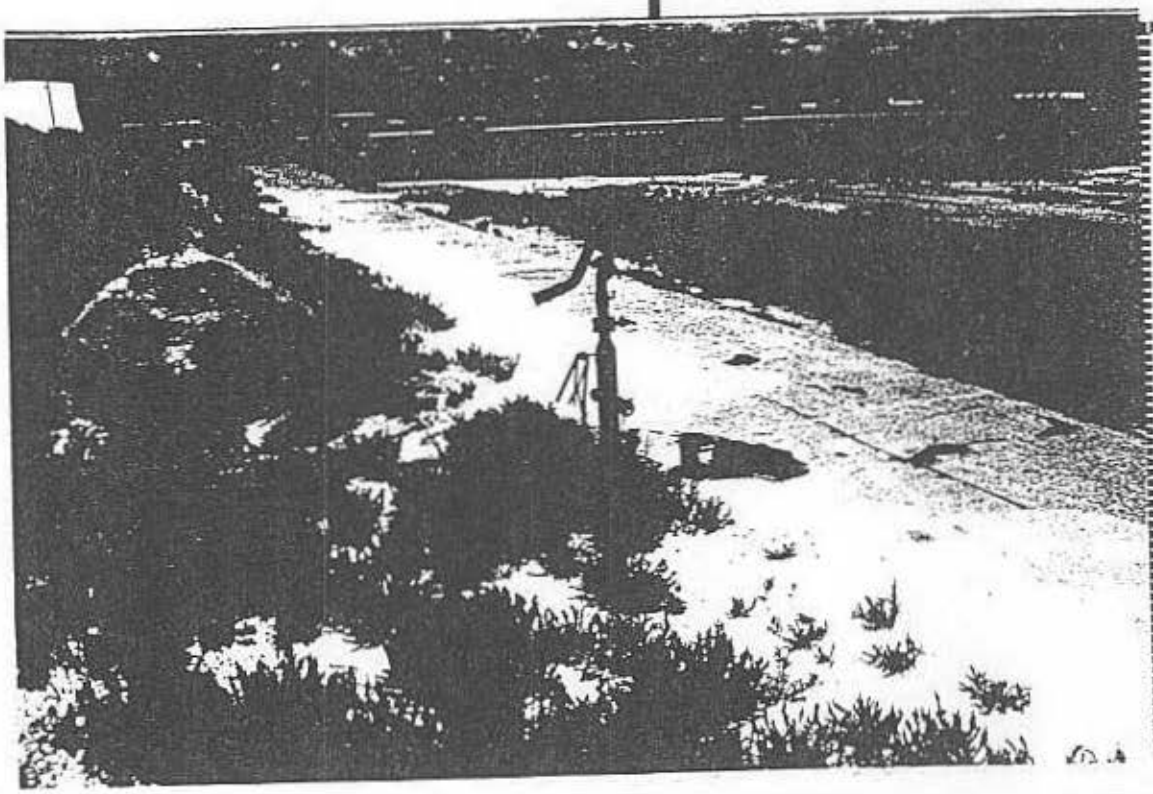
DATE / TIME / DIRECTION

9-14-87 / 1417 hrs / E

COMMENTS

POSSIBLE RUNOFF PATH FROM TANKS – BREACH IN DIKE INTEGRITY.

NO. 10

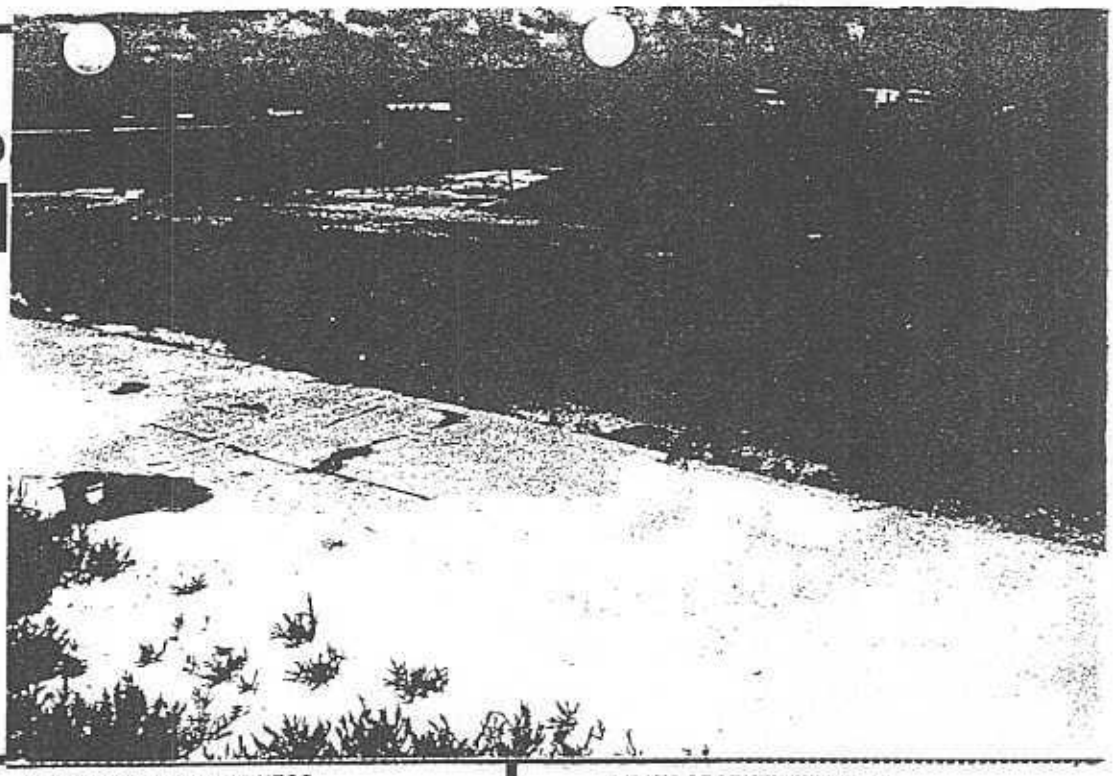


10 024

PG___OF___

ATTACHMENT

NO. 11



PHOTOGRAPHER/WITNESS

STACKS / COOK

DATE / TIME / DIRECTION

9-14-87 / 1417 hrs / SE

COMMENTS

POSSIBLE RUNOFF PATH INTO MARSHY AREA AT REAR OF FACILITY

PHOTOGRAPHER/WITNESS

STACKS / COOK

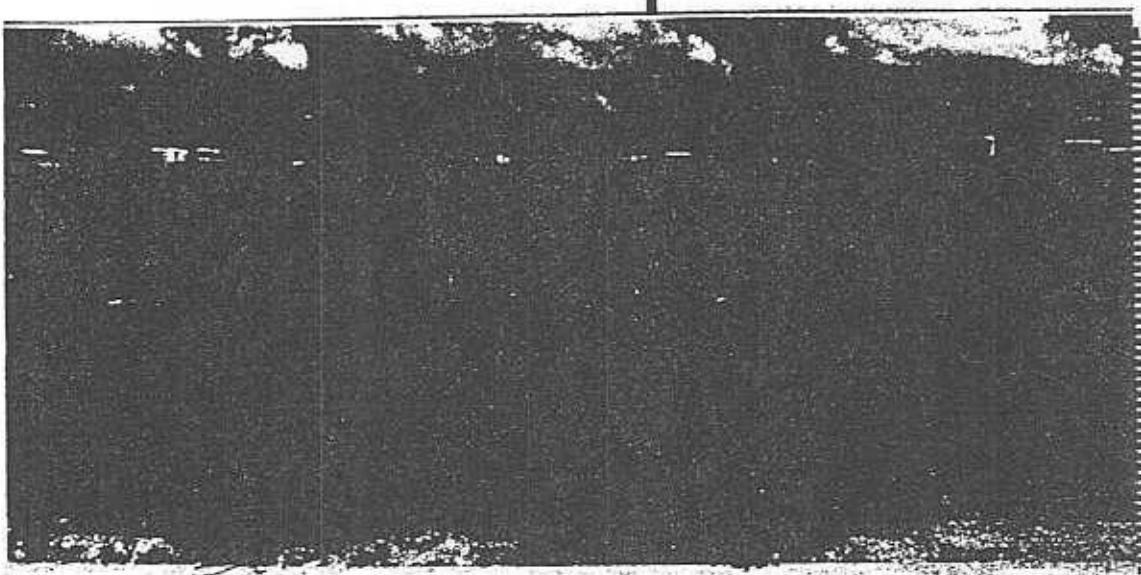
DATE / TIME / DIRECTION

9-14-87 / 1417 hrs / SE

COMMENTS

POSSIBLE RUNOFF PATH INTO MARSHY AREA AT REAR OF FACILITY.

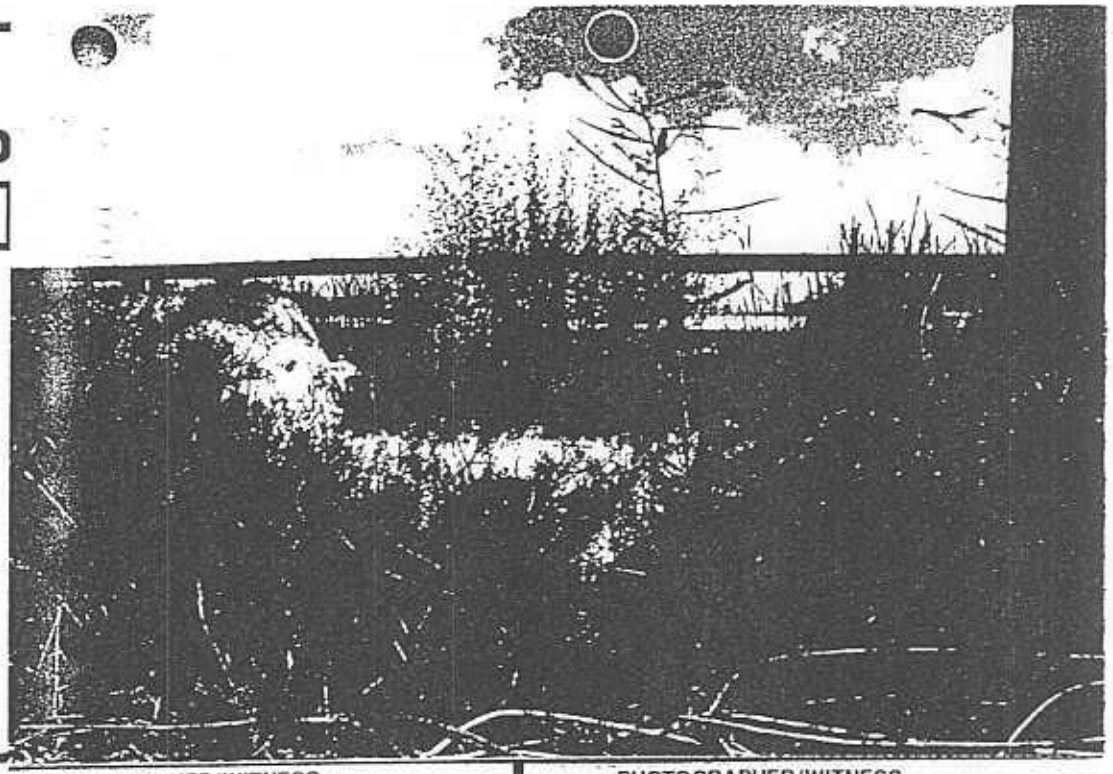
NO. 12



10 025

PG ___ OF ___

NO 13



PHOTOGRAPHER/WITNESS

STACKS / COOK

DATE / TIME / DIRECTION

9-14-87 / 1428 hrs / SE

COMMENTS

BREECH IN DYKE INTEGRITY AT BACK ROW OF TANKS.

PHOTOGRAPHER/WITNESS

COOK / STACKS

DATE / TIME / DIRECTION

9-14-87 / 1435 hrs / SE

COMMENTS

DANGER SIGN ON SOUTHERNMOST TANK.

ATTACHMENT

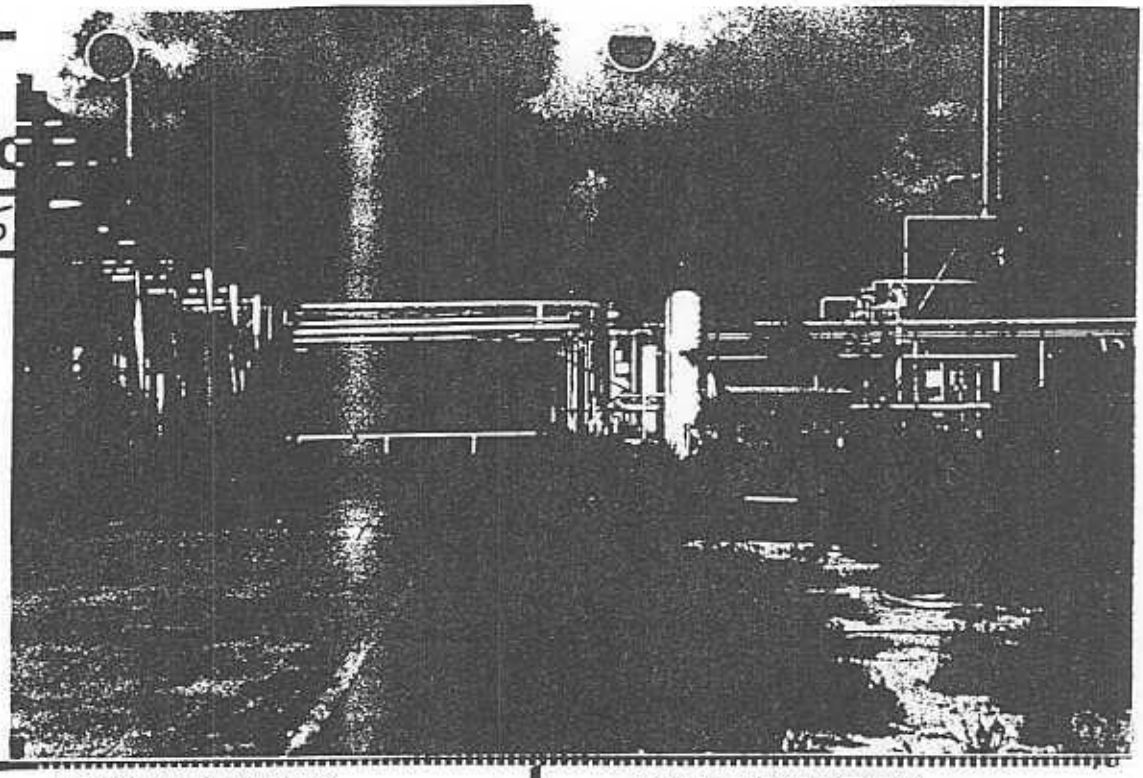
2 9 5 5 0 2 2 0 3 2 0

NO. 14

10 026

PG___OF___

NO. 15



PHOTOGRAPHER/WITNESS

STACKS/COOK

DATE / TIME / DIRECTION

9-14-87/1500hrs/NE

COMMENTS

MAIN PROCESSING FACILITY

PHOTOGRAPHER/WITNESS

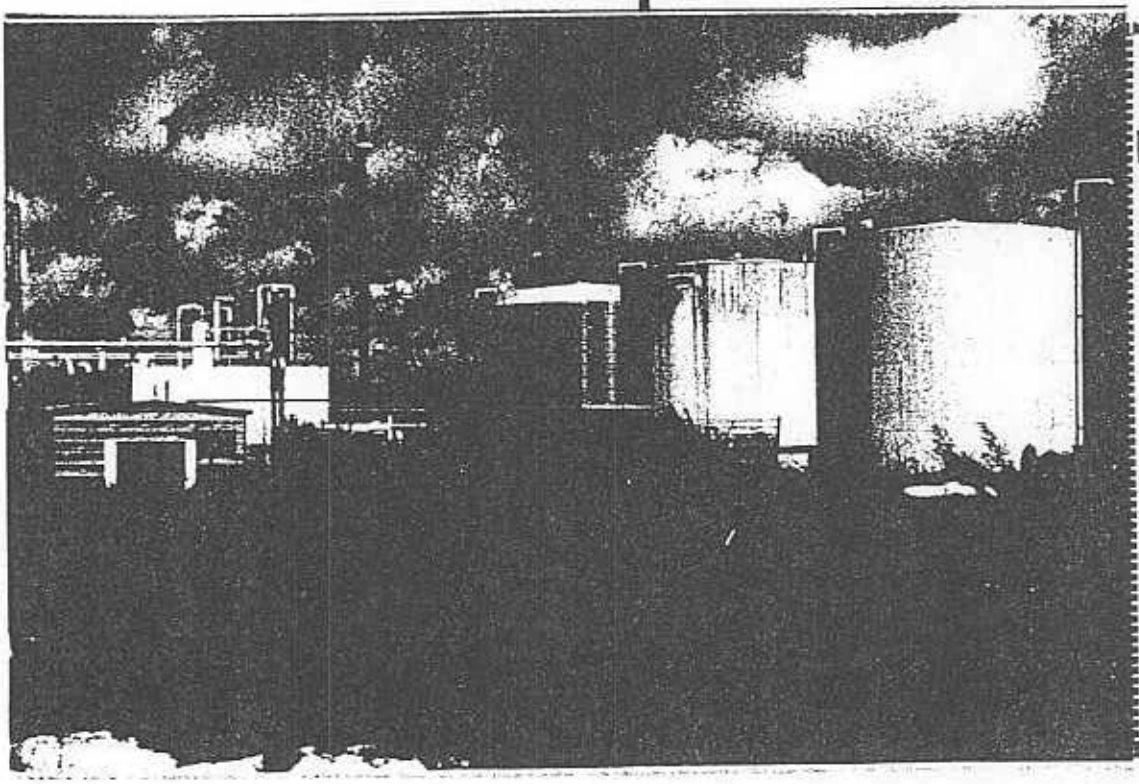
STACKS/COOK

DATE / TIME / DIRECTION

9-14-87/1500hrs/NE

COMMENTS

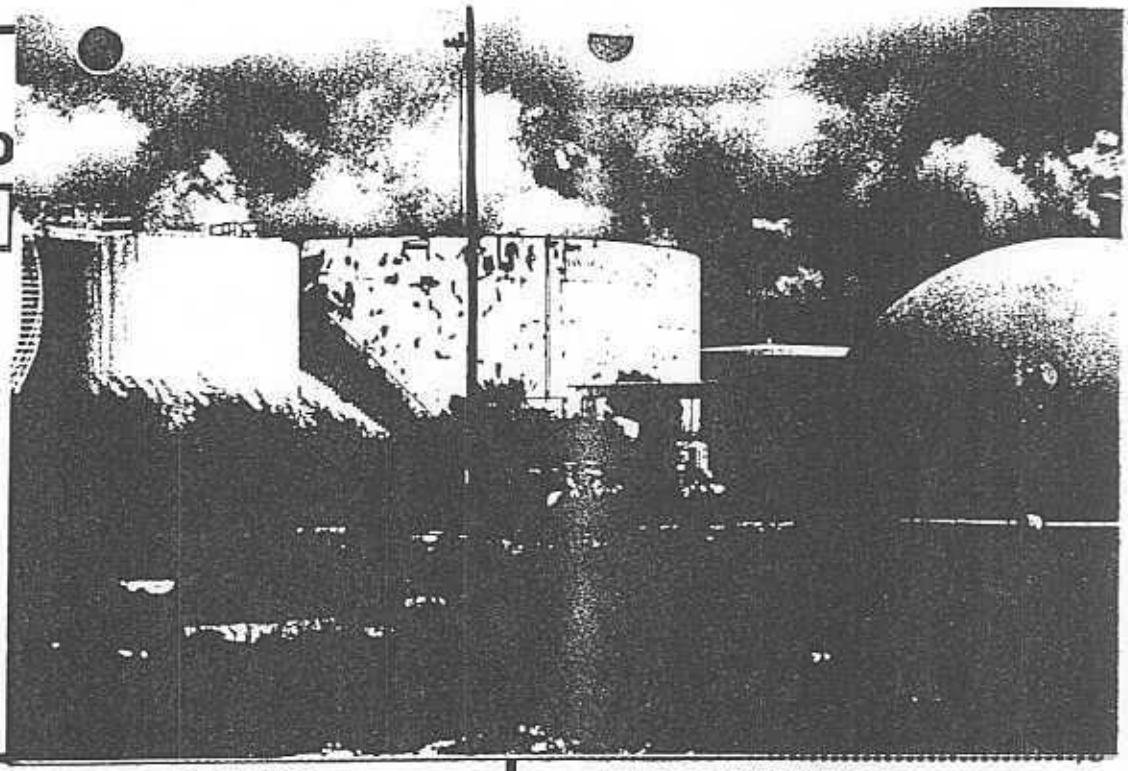
MAIN PROCESSING FACILITY



NO. 16

PG ___ OF ___

NO 17



PHOTOGRAPHER/WITNESS

STACKS / COOK

DATE / TIME / DIRECTION

9-14-87 / 1500 hrs / E

COMMENTS

MAIN PROCESSING FACILITY, STORAGE TANKS.

PHOTOGRAPHER/WITNESS

STACKS / COOK

DATE / TIME / DIRECTION

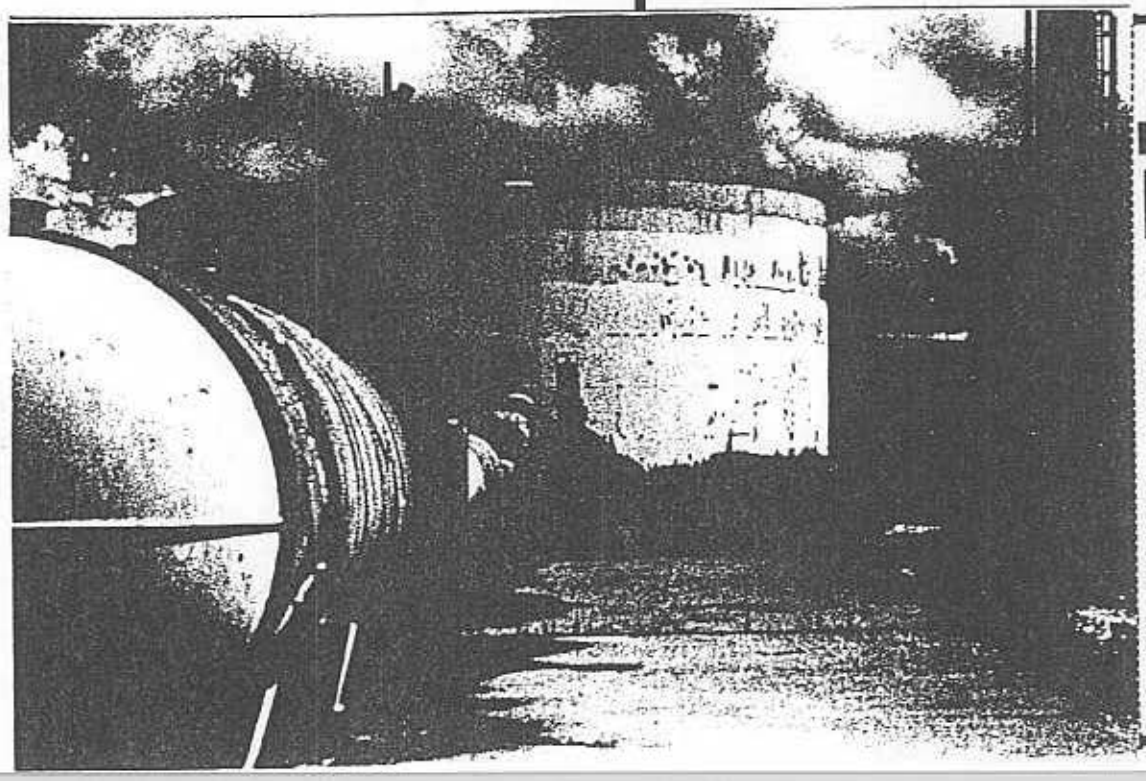
9-14-87 / 1500 hrs / SE

COMMENTS

MAIN PROCESSING FACILITY

ATTACHMENT

2 5 9 5 3 6 0 0 3 2 0 3 3 3 3 7

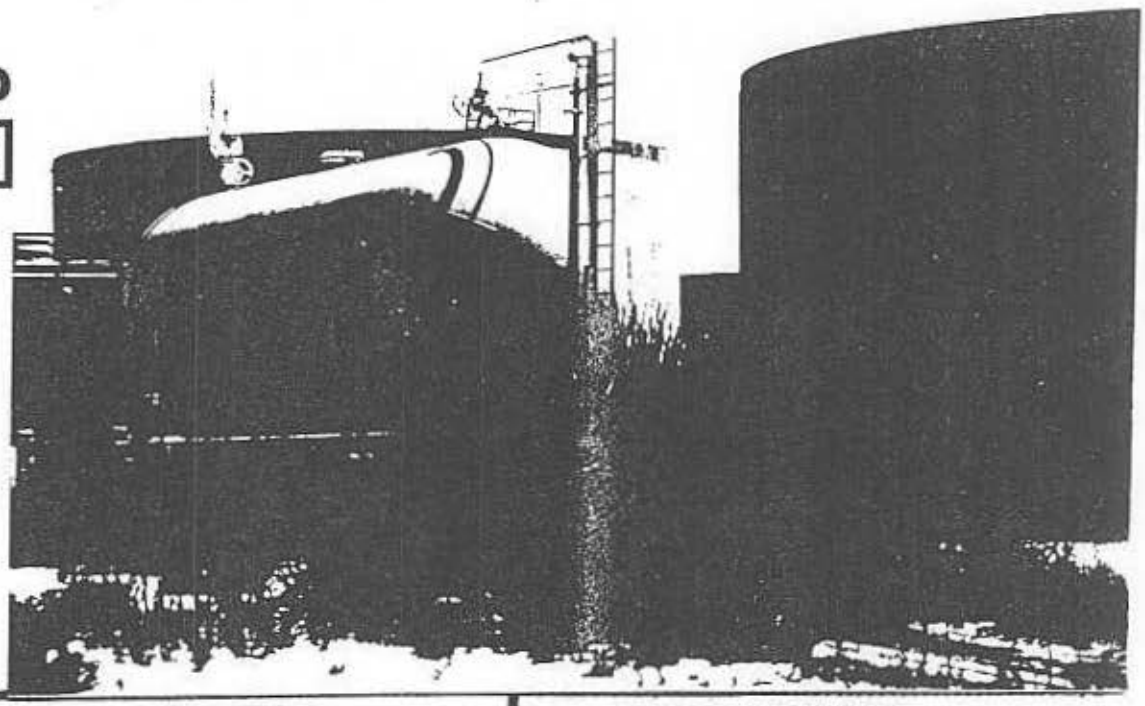


NO. 18

10 028

PG___OF___

NO 19



PHOTOGRAPHER/WITNESS

STACKS/COOK

DATE / TIME / DIRECTION

9-14-87/1500hrs/S

COMMENTS

MAIN PROCESSING FACILITY

PHOTOGRAPHER/WITNESS

STACKS/COOK

DATE / TIME / DIRECTION

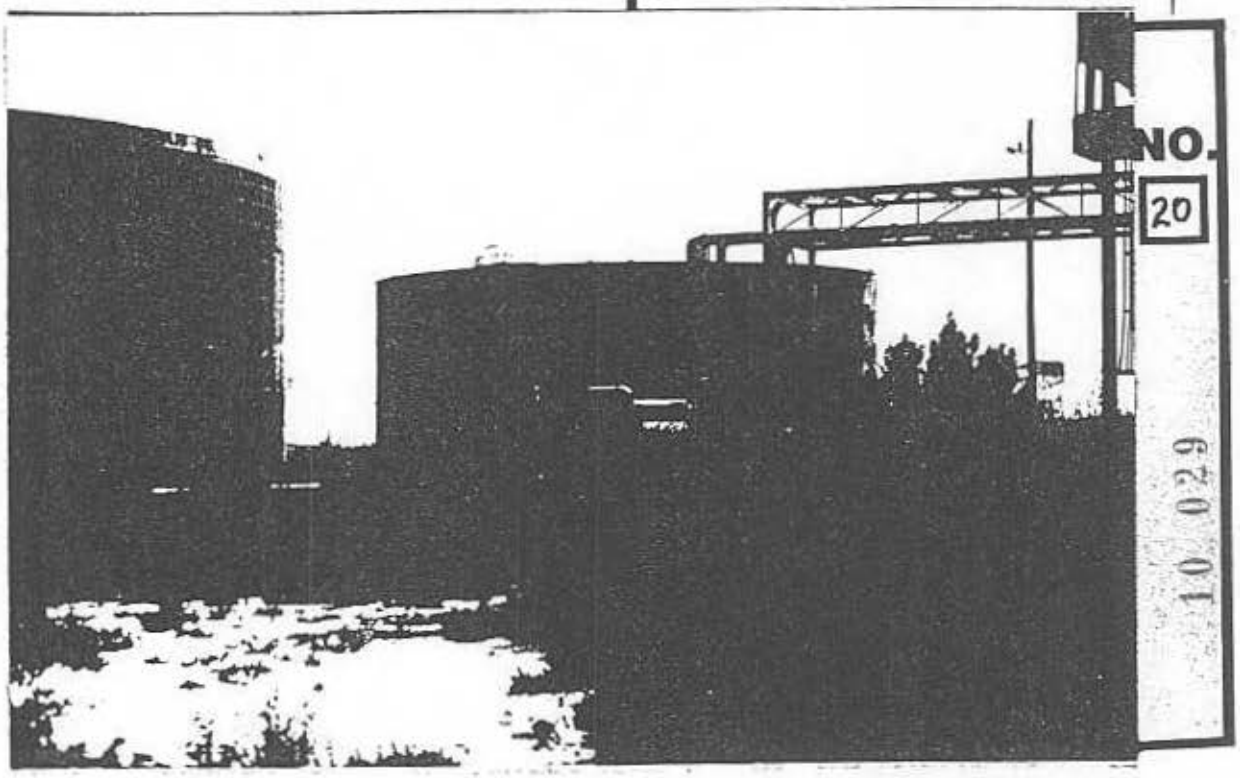
9-14-87/1500hrs/SW

COMMENTS

MAIN PROCESSING FACILITY

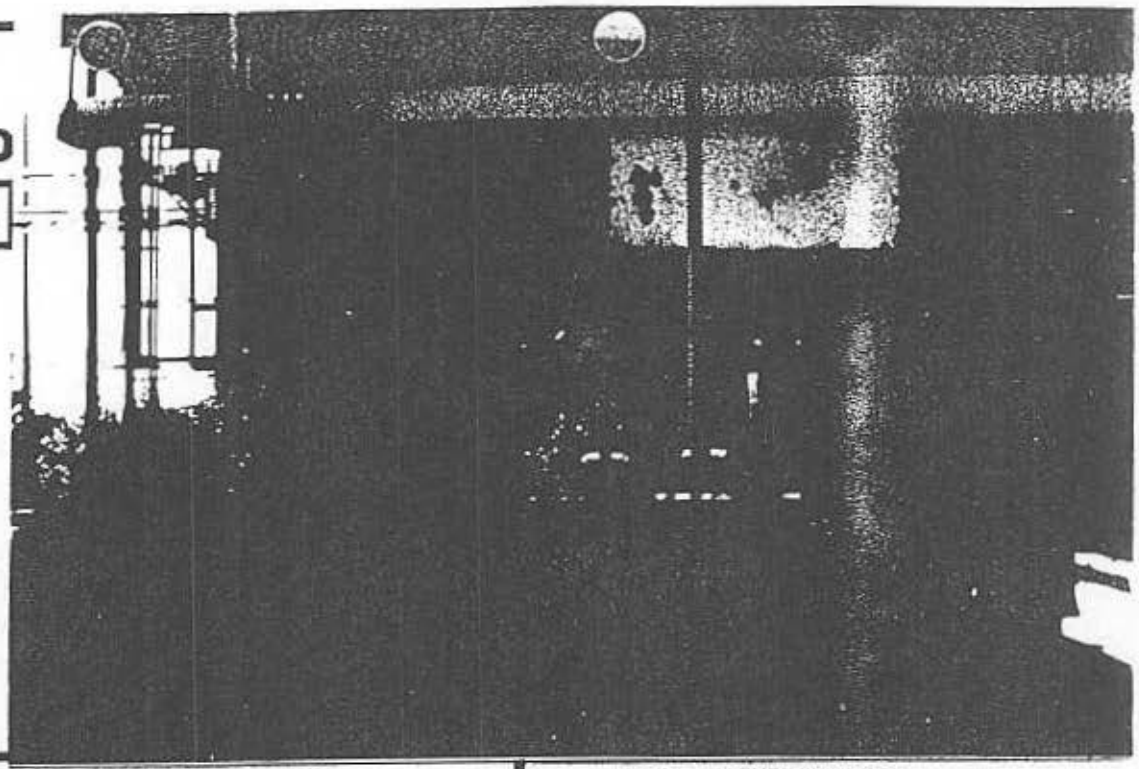
ATTACHMENT

NO. 20



PG___OF___

NO 21



PHOTOGRAPHER/WITNESS

STACKS/COOK

DATE / TIME / DIRECTION

9-14-87 / 1500hrs / W

COMMENTS

MAIN PROCESSING AREA

PHOTOGRAPHER/WITNESS

STACKS/COOKS

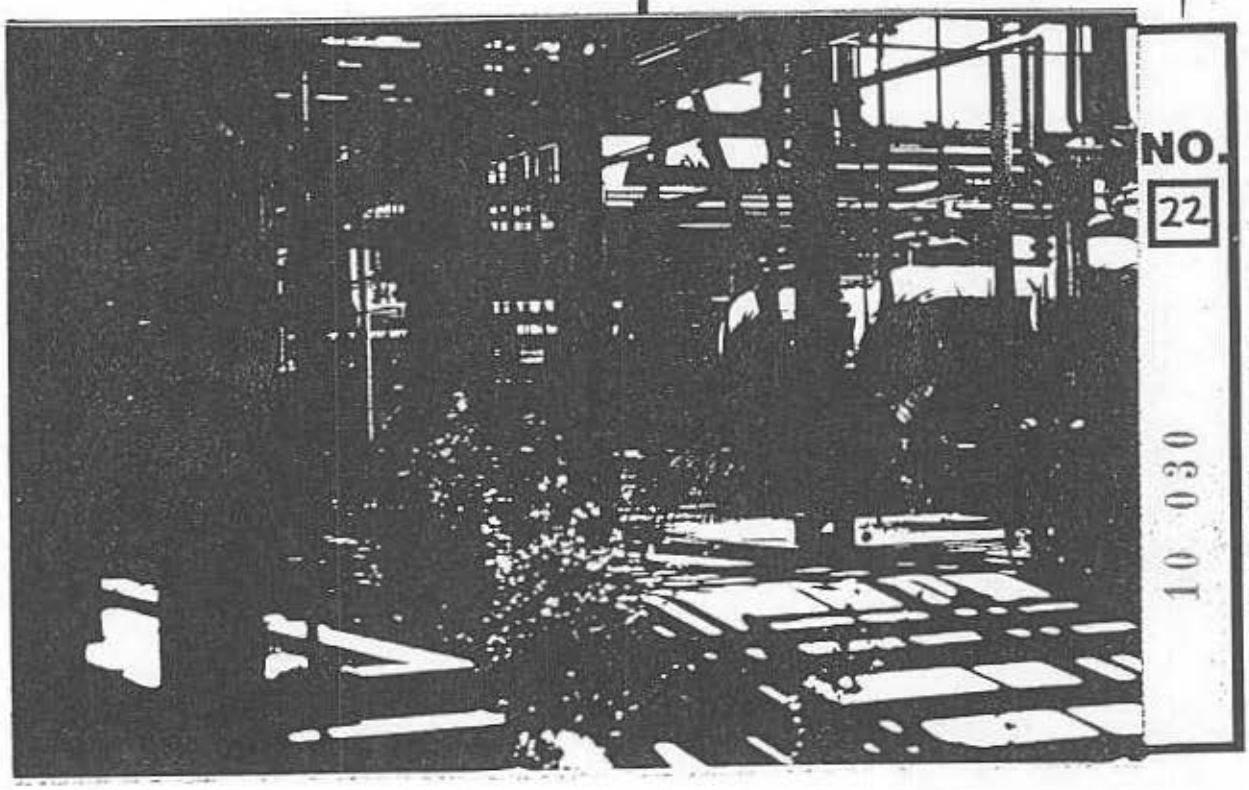
DATE / TIME / DIRECTION

9-14-87 / 1500hrs / W

COMMENTS

MAIN PROCESSING AREA

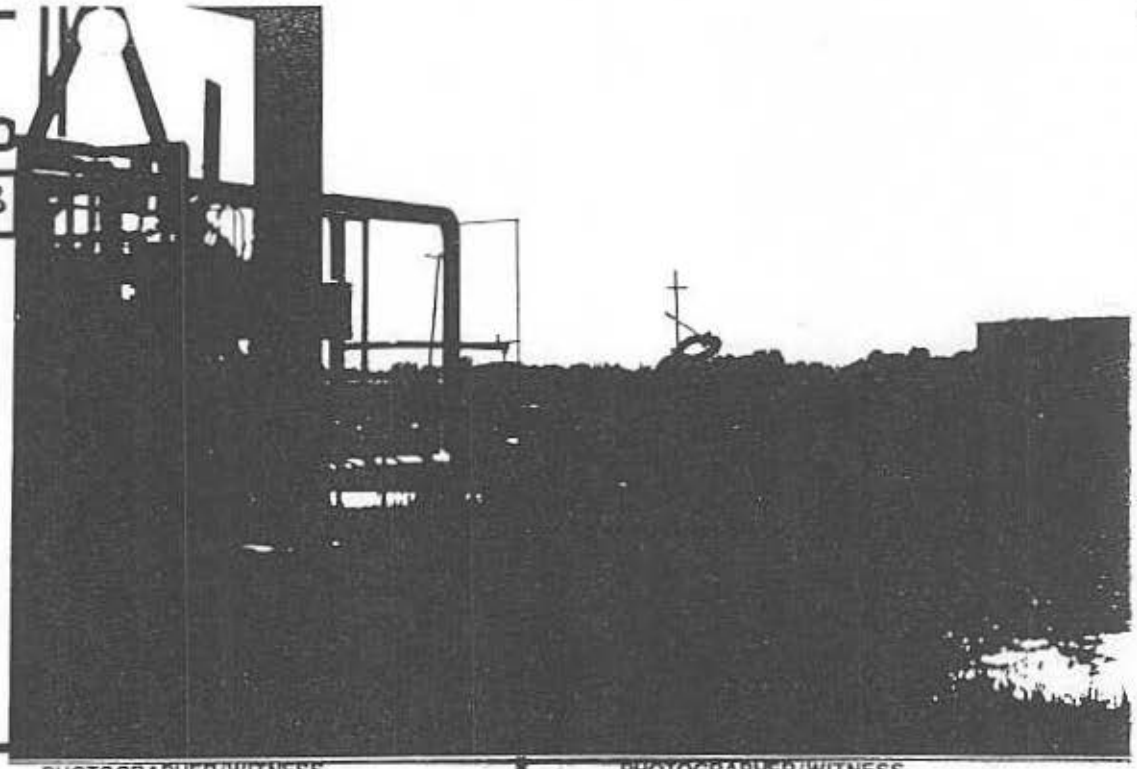
ATTACHMENT



NO. 22

PG___OF___

NO. 23



PHOTOGRAPHER/WITNESS

STACKS / COOK

DATE / TIME / DIRECTION

9-14-87 / 1500 hrs / NW

COMMENTS

MAIN PROCESSING AREA

PHOTOGRAPHER/WITNESS

STACKS / COOK

DATE / TIME / DIRECTION

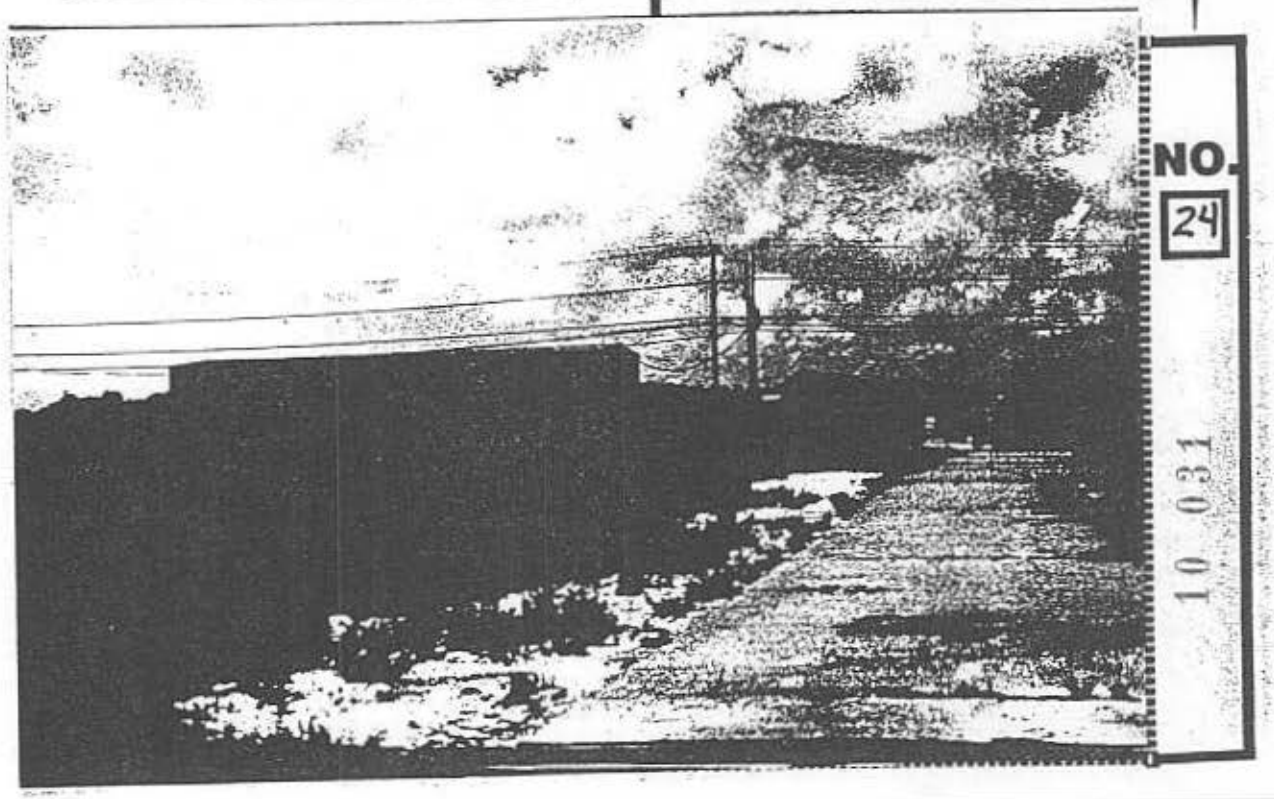
9-14-87 / 1500 hrs / NW

COMMENTS

MAIN PROCESSING AREA WITH FRONT GATE IN BACKGROUND.

ACHMENT

2 5 9 5 6 0 2 2 0 0 3 3 2 5 3



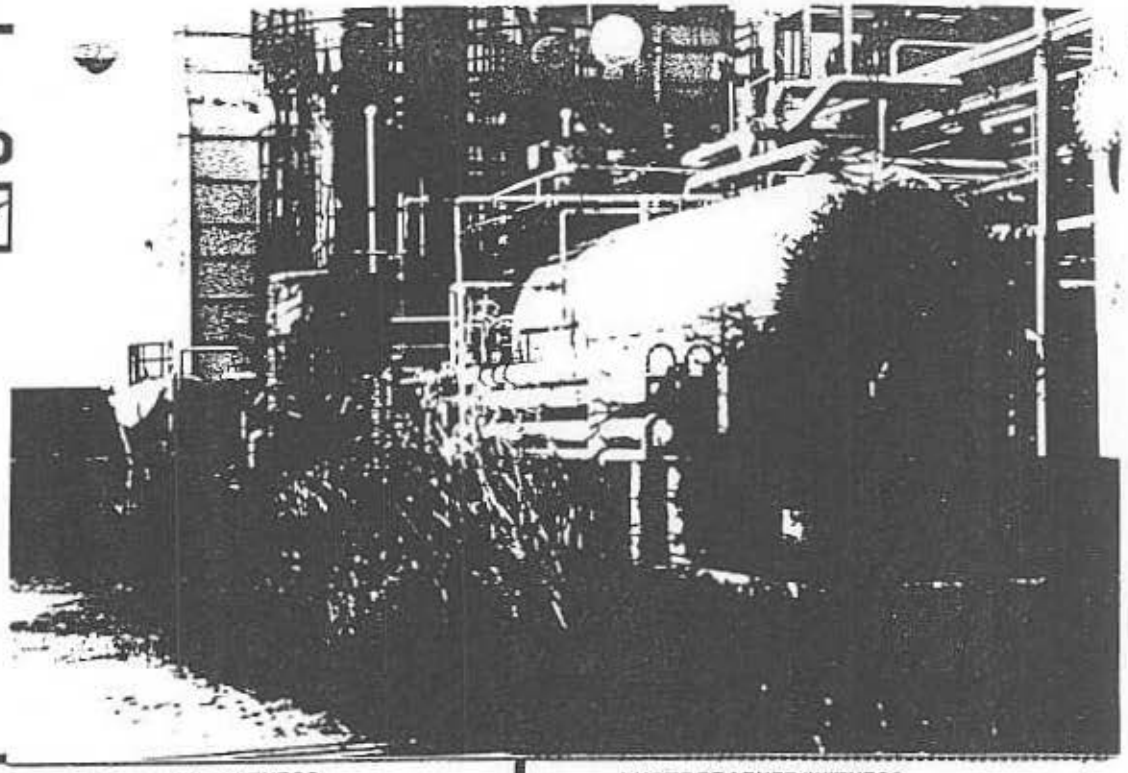
NO. 24

10 031

PG ___ OF ___

ATTACHMENT

NO 25



PHOTOGRAPHER/WITNESS

STACKS/COOK

DATE / TIME / DIRECTION

9-14-87/1500hrs/N

COMMENTS

MAIN PROCESSING FACILITY WITH DRUMS IN FOREGROUND.

PHOTOGRAPHER/WITNESS

STACKS/COOK

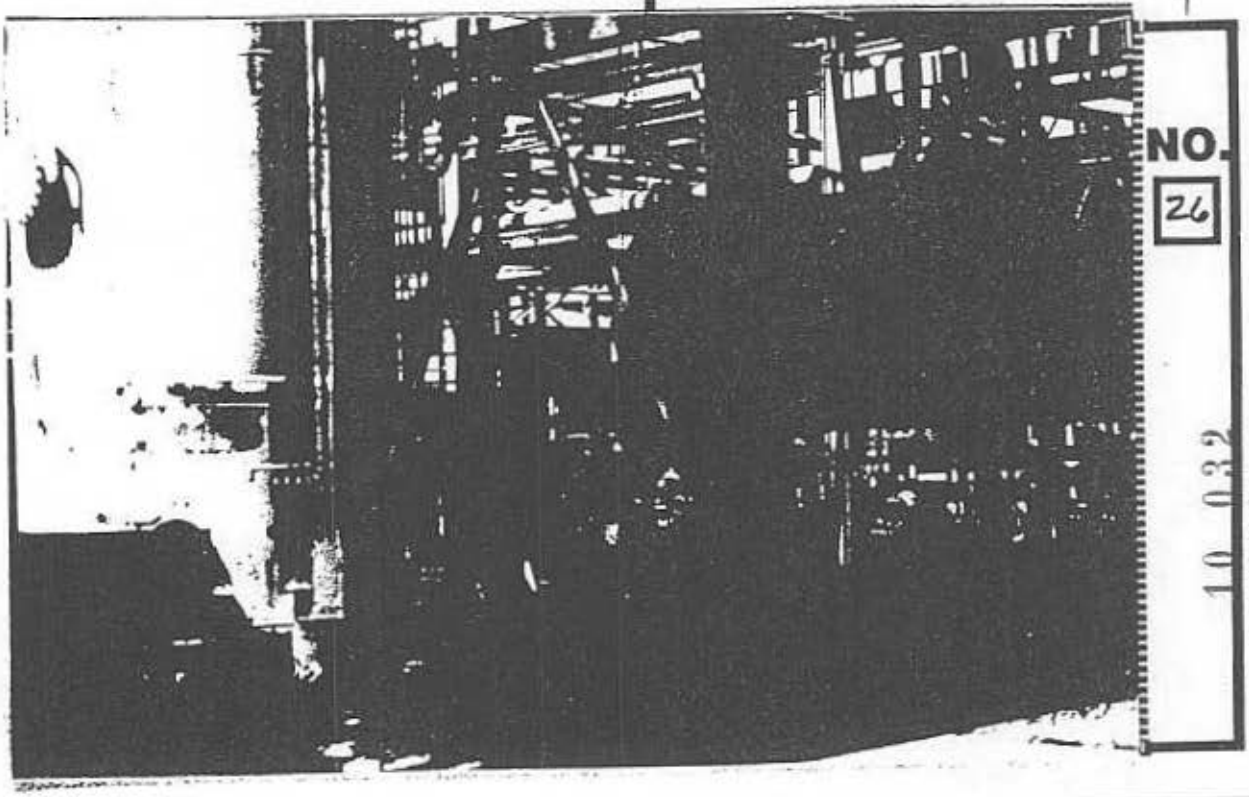
DATE / TIME / DIRECTION

9-14-87/1500hrs/N

COMMENTS

MAIN PROCESSING AREA

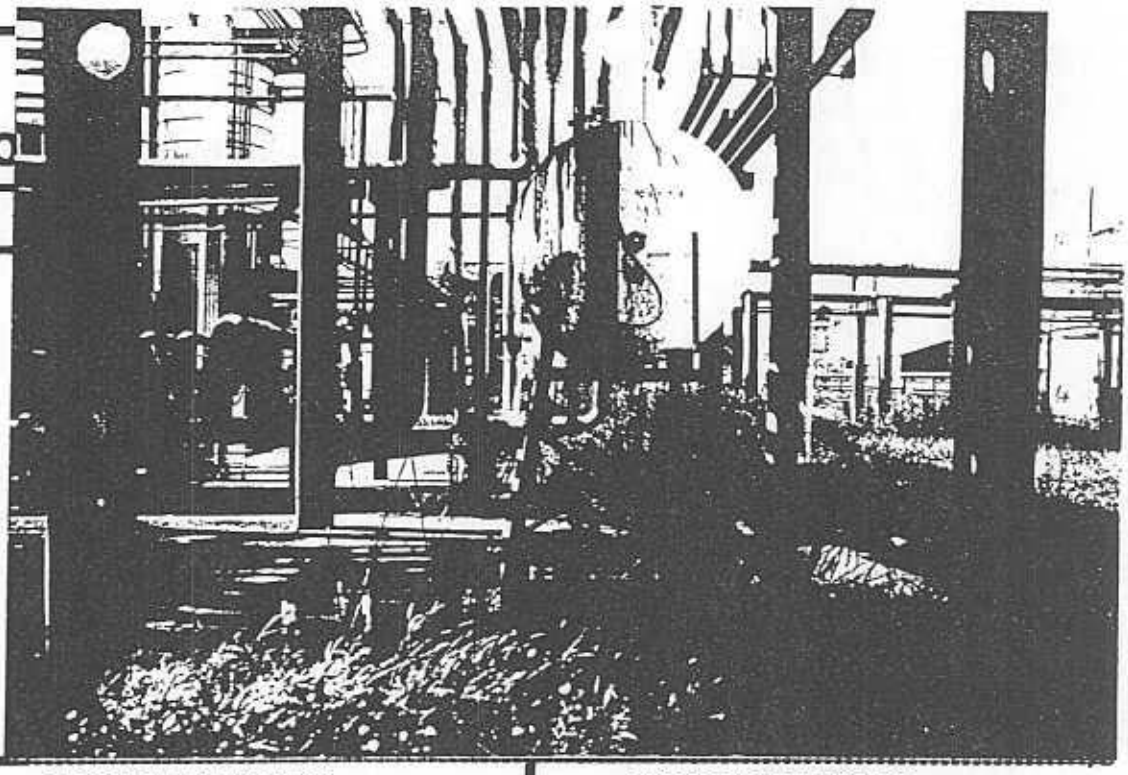
NO. 26



10 032

PG ___ OF ___

ATTACHMENT



NO. 10 B

PHOTOGRAPHER/WITNESS

STACKS / COOK

DATE / TIME / DIRECTION

9-14-87 / 1515 hrs / NW

COMMENTS

LEAKING TANK IN PROCESSING AREA

PHOTOGRAPHER/WITNESS

STACKS / COOK

DATE / TIME / DIRECTION

9-14-87 / 1530 hrs / E

COMMENTS

FRONT OF FACILITY FROM FM 2725.

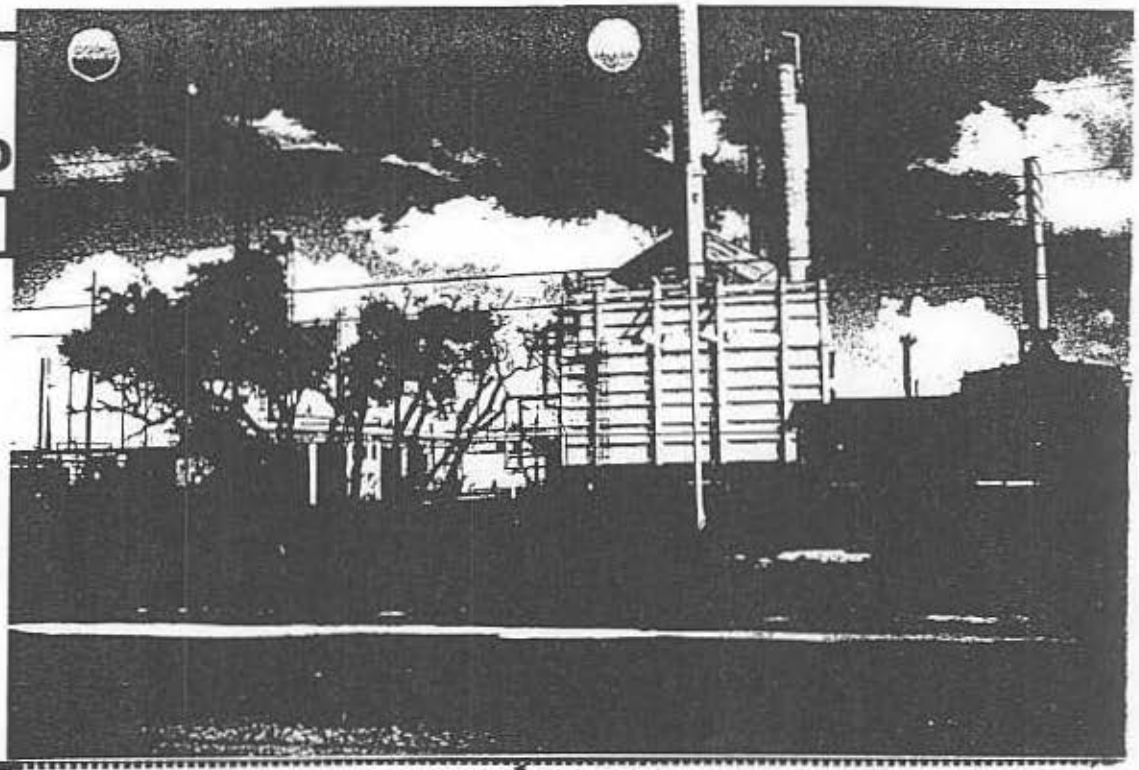
NO. 11 B

10 033

PG___OF___

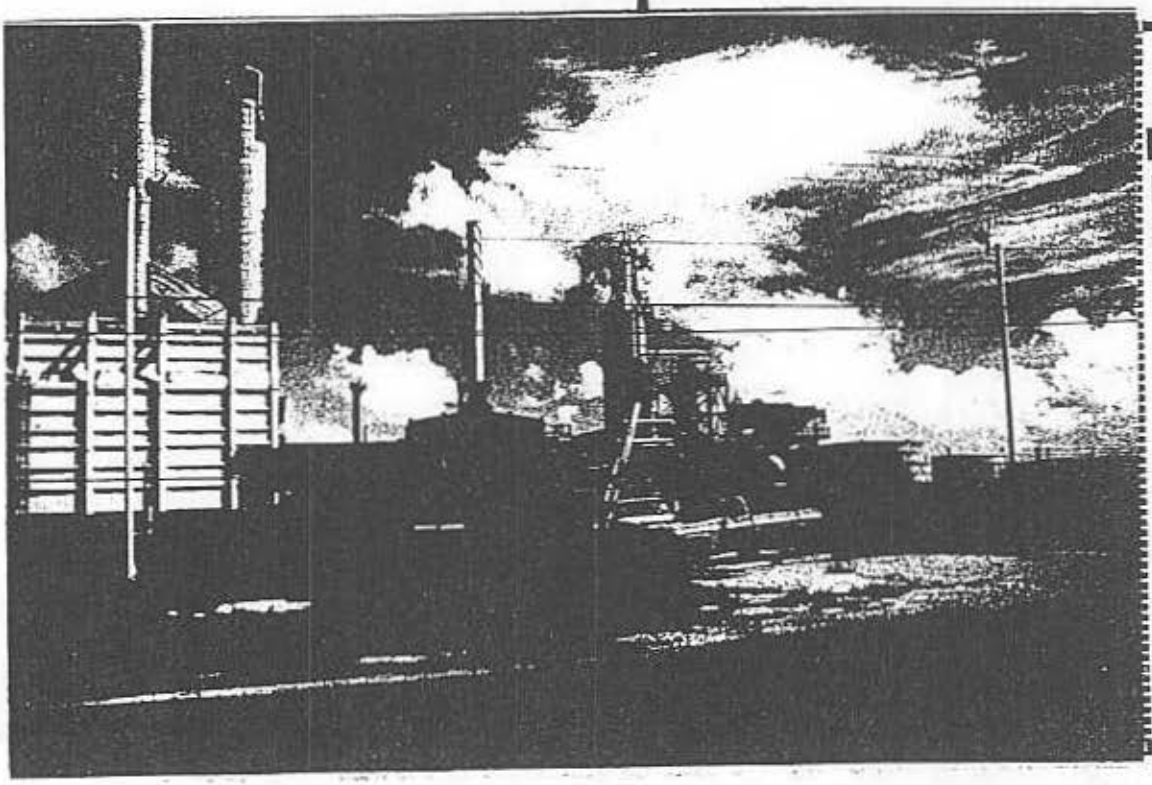
ATTACHMENT

NO. 12 B



PHOTOGRAPHER/WITNESS
STACKS / COOK
DATE / TIME / DIRECTION
9-14-87 / 1530 hrs / ESE
COMMENTS
FRONT OF FACILITY

PHOTOGRAPHER/WITNESS
STACKS / COOK
DATE / TIME / DIRECTION
9-14-87 / 1530 hrs / SE
COMMENTS
FRONT OF FACILITY - GATE & GAURDHOUSE.

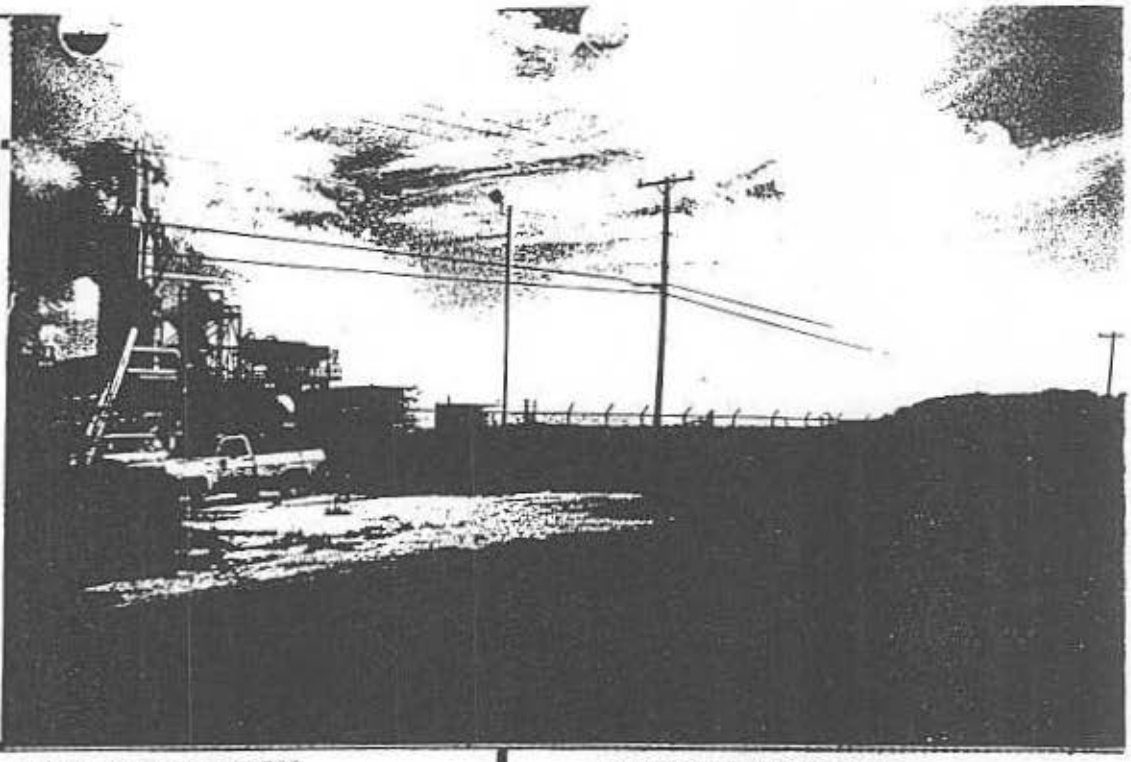


NO. 13 B

10 034

PG___OF___

NO. 14 B



PHOTOGRAPHER/WITNESS

STACKS / COOK

DATE / TIME / DIRECTION

9-14-87 / 1530 hrs / SW

COMMENTS

FRONT OF FACILITY, FM2725

PHOTOGRAPHER/WITNESS

DATE / TIME / DIRECTION

COMMENTS

NO.

10 035

ATTACHMENT

2 5 5 3 6 2 0 3 3 3 7